

OCT 1 0 2001 MICROFILMED





OWNER

CITY OF

PORTLAND, OREGON

OFFICE OF PLANNING AND DEVELOPMENT REVIEW

1900 SW 4^{In} Ave, Suite 5000

Portland, OR 97201



COMMERCIAL BUILDING PERMIT

01-159988-000-00-CO

10/4/01

Issued:

Site Address: 625 SW 4TH AVE

AND DEPOSITE OF STREET

CAPLAN BLD/ FAMOUS FOOTWEAR

 PROJECT INFORMATION
 Occ. Group
 Const. Type

 Business
 Alteration
 M
 III-1HR

Project Description: TI- NEW TENANT in old Caplan space Famous Footware. Continued use of retail on the 1st and 2nd

floor with basement storage. Upper floors vacant.

APPLICANT CG Construction Company *DAVE CARL*

ROCK 625 LLC

CONTRACTOR CG Construction Company *DAVE CARL*

Phone (503) 226-1078

Phone Phone

Project Details

Yes

16

DS-Others guardrail
Maintain Current Fire Protection? Yes

Sprinkler System Required? Yes

Water District

Alarm System Required?

City of Portland

Project Details

Code Edition (Year) 1997 Lot Area (Sq. Ft.) 5000

Smoke Detectors Required? Yes

Steel stairs/Handrails Yes

Zoning - Property (1) CXdCC

PAID

CITY OF PORTLAND

BEFORE YOU DIG

ATTENTION: Oragen faw requires you to follow rules adopted by the Oragen Ulvity Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0000. You may obtain copies of the rules by calling the center, (Note: the telephone number for the Oragen Utility Motification Center is 1-200-332-2344).

CITY CONTACT E-Mail: PROCESS MANAGEMENT

Phone: 503-823-7357

Fax: (503) 823-4172

INSPECTION REQUEST PHONE NUMBERS

Building/Trade Inspections - Call Before 6:00 AM:

(503) 823-7000

TDD: (503) 823-6868

IVR Inspection Request

Number:

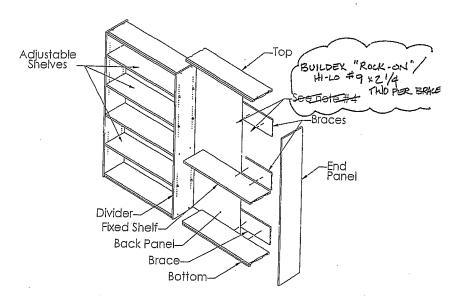
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Securing wall units to store wall

If code requires, screw through the back braces into the stude of the store wall to secure the unit.

Place two wall anchors into each brace.



Wall units are available in 7, 8 and 9' heights. Construction is identical only end panel height changes.

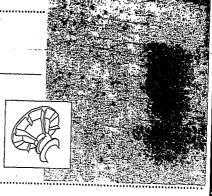
TWBuildex

BUILDING IDEAS THAT WORK™

ROCK-ON"

Cement Board Fasteners

High performance rib design is still the best!!!



Applications



Cemer.:-type boards or any dense sheathings to steel or wood stude



Wood Studs.



wood stude



wood studs.

Product Features

Rib design under head countersink into dense material while preventing stripouts.

Two point types for steel and wood applications.

Larger head diameter increases board surface contact for greater pullover resistance

Product Specifications

Diameter.....

-Thread Form..... 8-18 S-12* Drill Point..... #8 Type S-12

#9 Type "S"

Head Style...... #2 Phillips Water with countersinking ribs

rrosion Resistance

Kesternich Results (DIN 50018, 2.0L)

20 Cycles - 10% or less red -ust

Salt Spray Results (ASTM B117)

500 hours - 10% or less red rust

Selector Guide

ector Guiae.				
A	Part Number	Length	Material Attachment Range	Applications
A THE THE PARTY OF	2151500* 2153500*		Up to 3/4" Material Thickness to Wood; 3/8" - 1" Material Thickness to Steel Up to 1-1/8" Material Thickness to Wood; 3/8" - 1-3/8" Material Thickness to Steel	Cement Board to Wood or Light Gauge Steel 26-20 Gauge
	2155500	9 x 2-1/4"	Up to 1-3/4" Material Thickness to Wood; 1" to 1-7/8" Material Thickness to Steel	
Fully Threaded.	2156500 2159500* 2139500	S-12 ¹⁴ 8 x 1-1/4 ¹¹ 8 x 1-5/8 ¹¹ 8 x 2-1/4 ¹¹	3/8" to 3/4" Material Thickness 3/8" to 1-1/4" Material Thickness 1" to 1-7/8" Material Thickness	• Cement Board to Steel Studs 20-12 Gauge

Performance Data

			P	ullout Va	lues in Ste	el (Gaud	ie)		
		26	24	22	20	18	1 16	14	12
Į	S-12™	120	191	239	285	470	663	910	1424
->	HI-Lo®	163	242	314	(370)	•	-	-	

Wood (Embedment) #2 SPF 2 X 4						
	1/2"	3/4"	1"	1-1/4"		
Hi-Lo®	223	312	555	676		

Sheet Steel Gauges								
Gauge No.	12	14	16	18	20	22	24	26
Decimal Equivalent	.105"	,075"	.060"	.048"	.036"	.030"	.024"	.018

The values listed are utilimate everages achieved under laboratory conditions and apply to Buildex manufactured fasteners only. Appropriate safety factors should be applied to these values for design purposes.

Installation Guidelines

- A standard screwgun with a depth sensitive nosepiece should be used to install Rock-On™. For optimal fastener performance, the screwgun should be a minimum of 4 amps and have a RPM range of 0-2500.
- Adjust the screwgun nosepiece to properly seat the fastener
- Worn or damaged bit tips should be replaced.
- The lastener is fully seated when the head is flush with the work surface.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The tastener must penetrate beyond the metal structure a minimum of 3 pitches of thread,

#TW Buildex

Rock-On", Climacoats, Hi-Los, S-12" and Building ideas that Work" are trademarks of ITW Buildex and Jillnois Tool Works Inc.

BUILDING IDEAS THAT WORK™
1349 West Bryn Mawr Avenue
Itasca, Illinois 60143
630/595-3500 FAX: 630/595-3549

www.itwbuildex.com

©2000 Illinois Tool Works, inc.

L.A. Darling Company

150 Business Park Drive + Sun Prairie, Wisconsin 53590 + (608) 837-0700

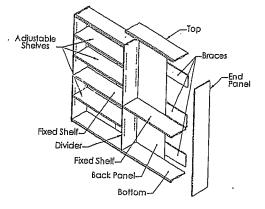
Regular Wall Units Installation Instructions

- 1 left and panel (FBA-2055H)
- I divider panel (FBA-2057H)
- 2 top panels (FBA-2004)
- 2 bottom panels (FBA-2000)
- 2 fixed shelves (FBA-2005)
- 6 back braces (FBA-2012)
- 2 back panels (FBA-2037)
- 6 adjustable shelves (FBA-1008-00)

The above quantities are for doublewide units.

The end panels are black on both sides; the divider panels are unfinished and have pre-drilled holes on both sides.

- Begin by attaching a bottom panel to an end panel. The black finished edge faces the front of the unit. Slide the bottom panel over
 the shoulder bolts in the end panel until locked in place. Refer to the Mod-eez clip instructions for more information if needed.
- 2. Now, attach the divider panel to the bottom panel using the shoulder bolts and Mod-eez clips.
- Next, in tall the three braces into the end panel and the divider. The braces are placed horizontal in the unit along the back. The
 braces also use the shoulder bolts and Mod-eez clips like the bottom panel. Refer to the pictorial if needed.
- If code requires, screw through the back braces into the stude of the store wall to secure the unit. Place two screws into each brace.
- 5. Place the back panel into the unit. The back panel is held in place by the shelves and top panel.
- 6. Now, install the fixed shelf. The shelf is located approx. 34" above the floor with the black finished edge facing the front of the unit. The fixed shelf uses the shoulder bolts and Mod-eez clips like the bottom panel.
- 7. The top panel can now be installed. The finished black edge faces the front of the unit and the dado faces up.
- Finally, place adjustable shelves as shown in the pictorial. The adjustable shelves use Rasant clips for attachment, refer to Rasant instructions if needed.
- Verify that the top, bottom, fixed shelves and adjustable shelves are horizontal. Also check the end panels and divider to make sure they are vertical. Use shims if necessary to level units.
- 10. Repeat steps #1-8 to finish the doublewide unit.

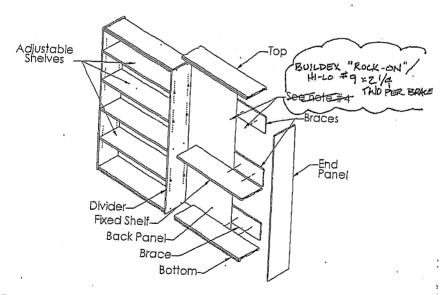


L.H. DARLING COMPANY 150 Business Park Drive • Sun Prairie, Wisconsin 53590 • (608) 837-0700

Securing wall units to store wall

If code requires, screw through the back braces into the study of the store wall to secure the unit.

Place two wall anchors into each brace.



Wall units are available in 7, 8 and 9' heights. Construction is identical only end panel height changes.

Specifications of wall fixture parts

All components are made from Grade M-2 particleboard (see attached spec sheet)

End Panel – 14.5" deep x 96" tall. Manufactured with %" particleboard. Covered with black melamine

Divider panel - 14.5" deep x 96" tall. Manufactured with "4" particleboard

Top Panel - 47" wide x 13.31" deep. Manufactured with 3/" particleboard

Bottom Panel - 47" wide x 13.31" deep. Manufactured with 3" particleboard

Fixed shelves - 47" wide x 13.31" deep. Manufactured with 3" particleboard

Back Braces - 47" wide x 9.7" tall. Manufactured with "2" particleboard

Adjustable shelves - 47" wide x 13.31" deep. Manufactured with 1/4" particleboard

Back Panel - 46 5/16" wide x 95 1/4" tall. Manufactured with 1/8" hardboard.

Bottoms, Tops, Braces, fixed shelves and end panels are connected together with the use of "Mod-Base" locking clips. (See attached sheets for Mod-Bez clips)

Adjustable shelves are installed using Rasant shelf tabs

2001 PUBS -FIRST + PREVIOUS NEXT+

Particleboard and MDF Selected Property Requi	

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Particleboard Grades

MDF Grades

14 High Density, penerally above 800 kp/int (50 lh/fat)

Abdition Dentity, generally between 640-800 kg/m* (40-50 B/h*)
Low Dentity, generally between 640-807 kg/m* (40 b/h*)
Manufactured home decking w

pnu Underlaymena HD MD

t ligh Density, generally above 800 kg/m¹ (50 tb/h²) Medium Dennity generally between 640-8101 kg/m¹(4p.50 tb/h²) Law Clensty, generally less than 640 kg/m² (40 tb/h²) in

* Please call the CPA for a enimplese table of all properly requirements.

+ PREVIOUS PUBS ← FIRST NEXT -

Composite Panel Association

18922 Premiere Court • Gaithersburg, Maryland, USA 20879 Tel 301/670-0604 • Fax 301/840-1252

Co.ol, 159 988

NOV 0 1 2001 MICROFILMED





CITY OF

PORTLAND, OREGON

OFFICE OF PLANNING AND DEVELOPMENT REVIEW

1900 SW 4th Ave. Suite 5000 Portland, OR 97201



COMMERCIAL BUILDING PERMIT

01-159988-DFS-01-CO

Site Address: 625 SW 4TH AVE

Issued: 10/29/01

(503) 226-1078

1997

CAPLAN BLD/ FAMOUS FOOTWEAR

PROJECT INFORMATION Const. Type Occ. Group Alteration III-1HR Business M

Project Description: Deferred submittal for steel stairs.

APPLICANT CG Construction Company *DAVE CARL*

OWNER **ROCK 625 LLC**

CONTRACTOR CG Construction Company *DAVE CARL* **Project Details**

Phone Phone

Phone

Alarm System Required? Yes Code Edition (Year)

DS-Others quardrail

Lot Area (Sq. Ft.) 5000

S1-Structural Steel Yes

Sprinkler System Required? Zoning - Property (1)

Yes CX4CC **Project Details**

DS-Steel Stairs/Handralls Yes

Maintain Current Fire Protection? Yes Smoke Detectors Required? Yes

Water District City of Portland

BEFORE YOU DIG

ATTENTION: Oregon law requires you to follow r OAR 952-001-0090. You may obtain copies of the

donled by the Oregon Utility Notification Conter. Those rules are set forth in OAH 952-001-0010 through illing the center, (Note: the telephone number for the Oregon Utility Nothication Center is 1-800-332-2344).

CITY CONTACT

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INSPECTION REQUEST PHONE NUMBERS

Building/Trade Inspections - Call Before 6:00 AM:

(503) 823-7000

TDD: (503) 823-6868

IVR Inspection Request

Number:

2123477



Office of Planning and Development Review

City of Portland Special Inspections 1900 SW 4th Avenue, Suite 5000 Portland, OR 97201

Structural Special Inspection and Observation Program Checksheet

The architect or engineer of record shall prepare and submit a special inspection and structural observation program in accordance with UBC Section 106.3.5. The architect or engineer of record shall confirm that the special inspection and structural observations noted below are <u>indicated on the plans</u>. Major projects may require that a more complete program be prepared.

Anchors - Cast-In-place Prestressed Concrete Str. Silicone Glazing Fireproofing Anchors - Expansion Shotcrete Masonry fm =	equire that a more complete p Please Not	rogram be prepared. e that a separate Soils Inspect	ion Form may also be re	quired ~
When complete, return to Document Services, attn: Special Inspections, or fax to (503) 823-5434. The information on this form must be provided before your building permit can be issued. Application # O1-159988-DFS-01-CO Date: October 24, 2001 Project Name: CAPLAN BLD/FAMOUS FOOTWEAR Site Address: 625 W 4TH AVE Architect of Record (Firm) Engineer of Record (Firm) TM Rippey Phone # (503) 443-3900 The following special inspections and structural observations shall be performed according to the State Building Code and City of Portland Administrative Rules unless a program of inspections is submitted by the Engineer of Record and approved by the Plan Review Division. PART A Anchors - Adhesive Reinforced Concrete Str. Silicone Glazing Fireproofing Anchors - Expansion Shotcrete Masonry fm = Special Cases: PART B Mandatory - If any box in PART A is checked, PART B must be completed indicate the City approved inspection agency to perform the special inspections noted in PART A above: CALLSON TESTING PART C If box below is checked, PART C must also be completed Structural Observation by Engineer of Record. Indicate stages at which structural observation is to occur: PART D This Checksheet must be signed by the Owner, Architect or Engineer of Record The owner hereby agrees to employ the special inspector, approved testing agency and/or engineer for the above noted special inspection; and/or structural observation. (Please Note: Contractors are NOT authorized to sign below) Signature of Certain in Architect or Engineer acting as the Owner's Agent (Please Note: Contractors are NOT authorized to sign below) Print Name Date Care Fhone Structural Tree Note: Contractors are NOT authorized to sign) Print Name Part C Martineer of Record Fhone Structural Observation of Certain Part I and Part I a	Instructions This C	hecksheet must be ful	y completed to ol	otain your permits
CAPLAN BLD/ FAMOUS FOOTWEAR Site Address: 625 SW 4TH AVE Phone # (503) 443-3900	⇒ Part D must be signed When complete, return to D	by the Owner, or Architect or Englocument Services, attn: Speci-	ineer acting as the owner's al Inspections, or fax to (s agent. (503) 823-5434.
The following special inspections and structural observations shall be performed according to the State Building Code and City of Portland Administrative Rules unless a program of inspections is submitted by the Engineer of Record and approved by the Plan Review Division. PART A Anchors - Adhesive Reinforced Concrete X Structural Steel Wood 5-Story Constant Anchors - Cast-in-place Prestressed Concrete Str. Silicone Glazing Fireproofing Anchors - Expansion Shotcrete Masonry fin = Special Cases: PART B Mandatory - If any box in PART A is checked, PART B must be completed Indicate the City approved inspection agency to perform the special inspections noted in PART A above: AND THIS Checksheet must be signed by the Owner, Architect or Engineer of Record The owner hereby agrees to employ the special inspector, approved testing agency and/or engineer for the above noted special inspections, and/or structural observation. (Please Note: Contractors are NOT authorized to sign below) Signature of Owner in the Architect or Engineer acting as the Owner's Agent (Please Note: Contractors are NOT authorized to sign) Print Name Dake Case.	Project Name: Site Address: Architect of Record (Firm)	CAPLAN BLD/ FAMOUS FOO 625 SW 4TH AVE	TWEAR Phone #	
Anchors - Adhesive Reinforced Concrete X Structural Steel Wood 5-Story Consequence Anchors - Cast-In-place Prestressed Concrete Str. Silicone Glazing Fireproofing Anchors - Expansion Shotcrete Masonry fin = Special Cases: PART B Mandatory - If any box in PART A is checked, PART B must be completed Indicate the City approved inspection agency to perform the special inspections noted in PART A above: LALLOW TESTING PART C If box below is checked, PART C must also be completed Structural Observation by Engineer of Record. Indicate stages at which structural observation is to occur: PART D This Checksheet must be signed by the Owner, Architect or Engineer of Record The owner hereby agrees to employ the special inspector, approved testing agency and/or engineer for the above noted special inspections, and/or structural observation. (Please Note: Contractors are NOT authorized to sign below) Signature of Other of the Architect or Engineer acting as the Owner's Agent (Please Note: Contractors are NOT authorized to sign) Print Name Dale Case. Reinforced Concrete Str. Silicone Glazing Fireproofing Firepro	The following special inspec Code and City of Portland A	tions and structural observations dministrative Rules unless a pro	shall be performed accord	ding to the State Building
PART C If box below is checked, PART C must also be completed Structural Observation by Engineer of Record. Indicate stages at which structural observation is to occur: PART D This Checksheet must be signed by the Owner, Architect or Engineer of Record The owner hereby agrees to employ the special inspector, approved testing agency and/or engineer for the above noted special inspections, and/or structural observation. (Please Note: Contractors are NOT authorized to sign below) Signature of Other of the Architect or Engineer acting as the Owner's Agent (Please Note: Contractors are NOT authorized to sign) Print Name Date Care. Fhone 583-2364078	Anchors - Adhesive Anchors - Cast-in-place Anchors - Expansion	ce Prestressed Concrete	Str. Silicone Glazi	Wood 5-Story Consing Fireproofing
PART C If box below is checked, PART C must also be completed Structural Observation by Engineer of Record. Indicate stages at which structural observation is to occur: PART D This Checksheet must be signed by the Owner, Architect or Engineer of Record The owner hereby agrees to employ the special inspector, approved testing agency and/or engineer for the above noted special inspections, and/or structural observation. (Please Note: Contractors are NOT authorized to sign below) Signature of Owner's the Architect or Engineer acting as the Owner's Agent (Please Note: Contractors are NOT authorized to sign) Print Name Date Communications.	Indicate the City approved in	spection agency to perform the sp	ART B must be completed pecial inspections noted in	d PART A above:
The owner hereby agrees to employ the special inspector, approved testing agency and/or engineer for the above noted special inspections, and/or structural observation. (Please Note: Contractors are NOT authorized to sign below) Signature of Orners the Architect or Engineer acting as the Owner's Agent (Please Note: Contractors are NOT authorized to sign) Print Name Date Come Phone 583-23244578	PART C If box below is ch	necked, PART C must also be co	ompleted stages at which structural o	observation is to occur:
	The owner hereby agrees to noted special inspections an Signature of Owner or the Architect	employ the special inspector, app d/or structural observation. (Pleas to rengineer acting as the Owner's Agen	proved testing agency and/ ne Note: Contractors are Note: Contractors are Note: Date Circle	or engineer for the above OT authorized to sign below)
		•		

APPLICANT - COMPLETE PARTS B, C

REVISED STRUCTURAL CALCULATIONS FOR CAPLAN STAIR AND RAILING

OCTOBER 26, 2001

DESIGN & PARAMETERS

CODE	1997 UBC
STAIR LIVE LOAD	100 psf
RAIL LIVE LOAD	50 plf

TABLE OF CONTENTS

CALCULATIONS -1 - 18



TM RIPPEY CONSULTING ENGINEERS	BY (14) DATE 10. 2001
7070 S.W. Fir Loop, Suite 100	JOB NO 1/4/3.0/
Tigard, Oregon 97223 Phone (503) 443-3900	SHEETOF

STRINGER DESIGN

CENTER STEINGER

L=16'-0

46E 15 PSF DL

LL =100 PSF

un = 1/2 (8-33) (100+15) = 479 pm

m= 1/4 (474)(16)2 = 15,324

Sno = 15,328 (12)/66 (46,000) = 6.05 in3

12x4 × 3/6"

6 = 16.4 in3 I= 98.2 in4

DEFLECTION

B = 1364 (479/12)(16.12) = .246" = - 2/774 00

USE TS 12×4× 1/2

HEADER BEAM

R= 1/2 (4) (479) = 3832 16

M= 3432(8)/4 = 7468

Greg 7668612)/66646,000) = 3.029

45E 10×4 ×3/10 5= 12.3:03

1 TUMN

COZ h = 10.67 -19/12 = 9-83

75 VXY X 3/4 PAP = 51 K >> OK

TMR TM RIPPEY CONSULTING ENGINEERS

7070 S.W. Fir Loop, Suite 100 Tigard, Oregon 97223 Phone (503) 443-3900 CAPLAN STATE

BY 7210 DATE 10:2001

JOB NO 1183.01

SHEET / OF /2

EXIGTING HEADER BEAM

1= 17-6" - 11" = 11.54"

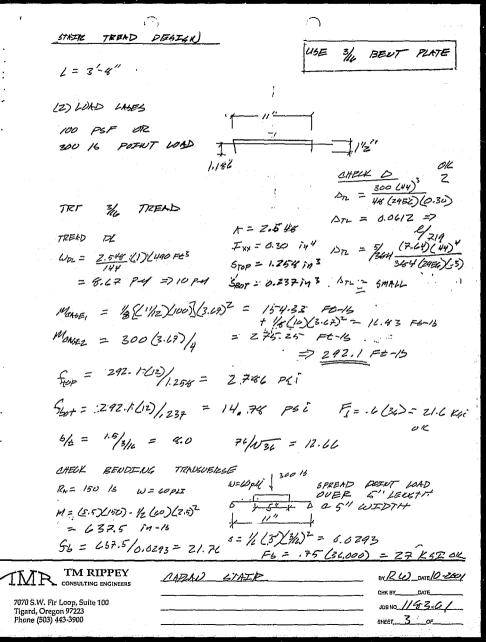
IMR TM RIPPEY CONSULTING ENGINEERS

CAPLAN STATIZ

BY 17.W DATE 10-2001

7070 S.W. Fir Loop, Suite 100 Tigard, Oregon 97223 Phone (503) 443-3900 JOB NO/143-01

U.4.



Title : Dsgnr: Description :

Job # Date: 9:43AM, 17 OCT 01

Page

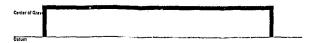
Scope:

neral Inform	ation					
Type #1 Rectange #2 Rectange #3 Rectange	lar Helght lar Helght	0.187 in 1.312 in 1,312 in	Width Width Width	11.000 in 0.187 in 0.187 in	X cg 0.000 in -5.400 in 5.400 in	Y cg 1,406 in 0,656 in 0,656 in
Total Are X cg Disi Y cg Disi	a 2,548 in2 0,00 in	lxx lyy Edge Dis +X -X +Y	stances from	0,30 ln4 35.05 in4 CG 5.500 ln -5.500 ln 0.238 in -1.262 in	r xx r yy S left S right S top S boltom	0.343 in 3.709 in 6.373 in3 6.373 in3 1.258 in3 0.237 in3

Built-Up Section Properties

Sketch & Diagram

Center of Gravity Dalum



IN STATE EXIT FALTLITY W=50 and e= 1/2 ((8.43) + 4) = 5.33 M= 1/4 (50) (5.33) = 177.5 FE-15 8.43 M= 1/4 (5.33)(200) Sb = 1775 (2)/235 = 9066 PSF M = 266.5Ft-16/ F6 = -66 (36) = 23.7 KGI f6 = 264.5(12)/235 11/6" PIPE OK = 13,608 PL. 5.33(50)= 264.5 2 GREATER THAN HANDERIL 200 15-6045 M= 266.5 (5.5) = 932.75 Ft-B 50 = 932,75 (12) 4463 (necs) = 0.4710 173 USE 2" STD PIPE 6 = ,541 WELD TO STEILISER D= 2.375 d= 2.375 TRY 3/ FILLET te= . 707 (3/4)=.1315 d= 2.375 +2 (-1325) = 2.64 M = 14193 in-16 A = . 745344 (2.640)2- (2.375)2] = 1,644 U= 266.5 16

 $S_{b} = \frac{11.193}{0.024} = \frac{17.437}{17.437} \quad F = 0.049047 \left[(2.2401) - (2.375) \right] = 0.4224$ $S_{0} = \frac{264.5}{1.044} = \frac{255.26}{255.26} \quad C = \frac{1}{2} \left(2.6401 \right) = 1.32$ $\frac{1}{5} = \sqrt{(12.427)^{2} + (255.3)^{2}} = 17.44 \quad \text{KSI} \quad F_{0} = .3670 = 21 \quad \text{KSI}$ CK

TMR TM RIPPEY CONSULTING ENGINEERS	CAPLAN STA	5/2	BY 12 11_DATE 10-210)
			CHK BYDATE
7070 S.W. Fir Loop, Suite 100 Tigard, Oregon 97223	· · · · · · · · · · · · · · · · · · ·		JOB NO 1183.61
Phone (503) 443-3900	·		SHEET 5 OF

JUTEIZMEDIATE BAULAGIERS D = Z'-11/2" = Z.95" 6 = 4" 0/c W= 4/2 (25 PS=) = 8.33 M = 1/4 (4.33) (2.45) = 9.06 Ft-15 SAULTE BLIZ 5= 1/2 (.5)(.5) = 0.0208 in3 12 (1.00) 1.0208 -75 (34) = 27 KGI OK FILLET NELD 3/2 せく治 0065 thick 5= 0.21469 193 =27.5 KSI

IMP. TM RIPPEY

ir Loop, Suite 100

7070 S.W. Fir Loop, Suite 100 Tigard, Oregon 97223 Phone (503) 443-3900 CAPLAN STATE

BY RW DATE /11-2001

JOB NO. 1183.01

BUEFT / OF

10-25-2007

HANDEATL

P= 200 15

MMAY = 200 (5.33)/4 = 266.5 FE-16

Step = 266.5 (12)/66636,000) = 0.1346 FM3

1/4 STD PIPE 6 = .235 FM3 0%

HANDRAIL CONN.

TMR TM RIPPEY CONSULTING ENGINEERS

7070 S.W. Fir Loop, Suite 100 Tigard, Oregon 97223 Phone (503) 443-3900 CARAN STATE

BY RW DATE 10-2001

JOB NO. 11513.01

SHEET 7- OF

HANDERTH / GUARDRATH TOP 200 (3.5) = 700 FE-15 700 (12)/66(34.000) POST 5 = .561 CONN TO BEKM Z.375 LAS SCREW 6" X 3" PLATE GLREWS 1.16 T = 700 (12)/3 = 2600 15, 3/4×8" LAG SCREW TLAP -4.5(447) = " PLATE T = 700 (12)/5.042 = 145315 4625 JOK a = 3 (12)(259)(4.254) = 1653 16

PLATE BENDENS $m \approx \frac{1}{2} (3)(254)(2.40)^2 = 3673 \pm 0.15$ $\tan = \sqrt{\frac{Cm}{.75}} (34.000)(3) = .477$

Phone (503) 443-3900

SHEET_ 8_OF__

AROUND OPENTAL

EXIT FACILITY

W= 50p4

SPAN TOP & BOTTOM RAFL

RIWN BUILDING COLUMNS

L = 14-1/2 = 13.08'

M= 1/4 (50)(13.04) = 1669,4 FE-1

5 (Let) = 1064.4 (12)/1666-10000 = 0.540

2"\$ 570 PIPE 6= .54/

OHELK COMPLET D = Z-375

P/E = 15,42

3300/36 = 91.7 ox

CONN TO POETS

BOZTS

V=R= 1/2 (13.04)(50) = 3.77 14

1000 1000

E = 10 KHZ

TRY Z 3/4" FORTS

VOAF = 10 (2)(11) = 2200 14 010

IMR TM RIPPEY CONSULTING ENGINEERS

M RIPPEY <u>CAPLAN STATA</u>

BY / U) DATE / C. WILL

7070 S.W. Fir Loop, Suite 100

Tigard, Oregon 97223 Phone (503) 443-3900 JOB NO. 1161 O 1

Bottom RAIL AS 11/2" PIPE = 4.36' 25 (1/2)(2.45) = 36.875 per M= 1/2 (36.874) (4-3c) = 87.6 F6-13 5=0.172 in3 € 11/2" OP W 1/4" WALLS 87-6 (12)/172 = 6113 REKLITIN @ POST P = 4(36.675) = 142

TM RIPPEY BY /24) DATE 10-200 CONSULTING ENGINEERS 143.01

7070 S.W. Fir Loop, Suite 100 Tigatd, Oregon 97223 Phone (503) 443-3900

COLD @ CHAPDRAIL POST

EXIT

P = 50 (1/3)(13.04) = 216 16

MPLATE = 218 (43125) = 940 in-16 8" PLATE

pulpie t = V cm/75 (3600)(31) = 0.20

USE THE PLATE

W/ (2) 3/4" X 3 LAL SCREWS

COUN TO CONC POSTS

3/4 X 29/4 EMBIED GASA Very = 1055 16 C 5/2 = 2000 pg:

TMR TM RIPPEY CONSULTING ENGINEERS

7070 S.W. Fir Loop, Suite 100 Tigard, Oregon 97223 Phone (503) 443-3900

CAPLAN	STATE
--------	-------

BY 12 U DATE 111-240

JOII NO 1143.01

SHEET 10 OF

COND @ WOOD COZUMNO

P = 200 /6 0/2 P = 17.25(50) = 6/2 /5

M= (5)(412) = 300 Ft-16

TRY 3/8×7" PLATE W/ LAG SCREWS

F=6 % 306(12)/5 = 735 16

378 15/IV (T-E)200 = 735/ = 1-94

USE 1/2" & X 5 LAG SCREWS

TM RIPPEY
CONSULTING ENGINEERS

7070 S.W. Fir Loop, Suite 100 Tigard, Oregon 97223 Phone (503) 443-3900 CAPLAN STAIR

by RW DATE 10-2001

JOB NO/143.0/

SHEET_//_OF_

ONN & ZX4 WXLL

R TM RIPPEY

7070 S.W. Fir Loop, Suite 100 Tigard, Oregon 97223 Phone (503) 443-3900 CARAN STAIR

____ JOB N

JOS NO. 1143.01

BY RW DATE 10-2001

SHEET 12 OF 18

CONL BEART

DL CONG. 75 PSF fr = 2500 KGUMED FLOUR 2 PSE S. = KOKSI ME 1.5 PSF 74.5 PGF 3240 LL = 100 FSF FACE OF 1A = 16 (14) = 224 F62 an 14.5 R= 0.04 (224-150) = 5,92, d=221/4 WOL = 80 PSF (14) = 1/20 pxf + 124 pxf EBEAM 5 = 14-0 WH = 100(1-0:0592)(14) 1317 p.4 A6 = 1.75 1.4 (1294) + 1.7 (1317) = 4056 16/FE Man = 1/6 (4056/14.5) = 1766.6 - K-FE Vn = 1/2 (4056)(14.5) - 4056 (27.25/2) = 21,845 March = 380 + (1.85) (14.5-1.45 BMn = 0.9 (1.75) (40,000 (2214 - 9/2) 85(2.5)(9.625) 3.43 Tan = 0.79 1Mn = 107.8 K-FE P= 1.75 (9.625)(22.25) 0.85 (2) /2500 (4.624) (22,29) du = 18.203 Ne = (1.9 \2500 + 2500 + 2500 + 20 1, 10c = 24,322(-65) = 10.54 K N4 W/0 SHELL PEZUF TM RIPPEY BY RW DATE 16.2601

CONSULTING ENGINEERS

7070 S.W. Fir Loop, Suite 100 Tigard, Oregon 97223 Phone (503) 443-3900

JOB NO_1143-61

FIEEL OBSERVED IN COME BEAM

smooth
A= 1/2/14)(3/4)= 0.11719 5/1L A= 1.5 (.25) = 0.375 4 15
A = (74)(-25) = .21875 9/16 0 14 14 $A = (.75)(3/6) = .28125 0.3/4 3/6$ $A = (3/6)(3/4) = 0.16406 3/16$
1.16 in 2 + 716 +
#7 4=0.60 in DEFORMED BAIL
A TOTAL = [1-75 in 2]

MR	TM RIPPEY
	CONSULTING ENGINEERS

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BY 12W DATE 16-2001
CHK BYDATE
11/24

COUNTER

Pa =7 672 13 Pp, = 1/2(16)(4)(15) = => 5440 16 PILL = 1/2 (14)(100) = 3200 16 P2 = 1/2 (14)(2)(15) = 240 15 PZLL=1/2(16)(2)(100) = 1600 15 27201 2 = 53, 124 Mu= 115.12 K-FZ Ru = 31.037 Un = 31.037 · (2223+1917) 22.25/12 PDL = 1/2 (14×4)(15×1.4) = 672. 15 PLL = 1/2 (14) (4×100×1.2) = 5440 1417

Mu = 102. 44 K-FE

Pu= 31,037

Vued = 31.037 - (2223+1417)22.25/2 = 25.55

nope.

MR	TM RIPPEY
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SHEET_15_OF___

TMRIPPEY CONSULTING ENGINEERS

7070 S.W. Fir Loop, Suite 100 Tigard, Oregon 97223

Phone (503) 443-3900

BY <u>R C. DATE 16 - 2001</u> CHK BY <u>DATE</u>

JOB NO. [143.0 [

ADD FOST

Pol = 5/6 (14.5) (1294) + 160/5 = 12.72 K Pll = 5/6 (14.5 (1317) = 11.935 K

24.6616

24.66/2

h= 6-1" 76 4x4 x % PEAP = 64 R

FUOTING

41.4" X4'-4" X1'-0 W/ 245 #5 EA. WAR

17 7 D	TM RIPPEY
TTXT TZ	CONSULTING ENGINEERS

7070 S.W. Fir Loop, Suite 100 Tigard, Oregon 97223 Phone (503) 443-3900

BY RW	_DATE_[0-200]
CHK BY	_OATE

SHEET / 7 OF

Spread Footing Design

Design Parameters

Column dead load

 $\gamma_C = 150 \text{ pcf}$

Concrete unit weight

$$P_{LL} = 11,935 \, \text{kip}$$

Column live load

 $\gamma_S = 0 pcf$

Soil unit weight

Total load

 $a_{plt} = 10 in$

Base plate dimension

Concrete compressive strength

Column dimension

Footing dimensions

Steel yield stress

Required reinforcing

h = 12inthickness

NUM = 5

Bar size

$$b = 4.333 ft$$

 $d = 8.063 in$

length, width effective depth n = 4

Number of bars each way

Bending

φ := .9

 $\phi \cdot M_n = 42778 \, lb \, ft$

 $\frac{M_U}{\phi \cdot M_D} = 0.361$

Soil bearing

q = 1463 psf

 $\frac{q}{q_{all}} = 0.975$

qall = 1500 psf

$M_U = 15454 lb ft$ Punching shear

d := .85

 $V_{up} = 34901 lb$

 $\frac{V_{up}}{\phi \cdot V_{c1}} = 0.423$

φ·V_{c1} = 82580 lb $\phi \cdot V_{C2} = 151797 \text{ lb}$

 $\frac{V_{up}}{dx^{1/2}} = 0.23$

Beam shear

d := .85

Vub = 1057816 φ·V_{cb} = 35636 lb

Baseplate bearing

$$\phi := 0.7$$

ψ·P_{brg} = 297500 lb Pu = 38097.5 lb

 $\frac{P_U}{\phi \cdot P_{brg}} = 0.128$