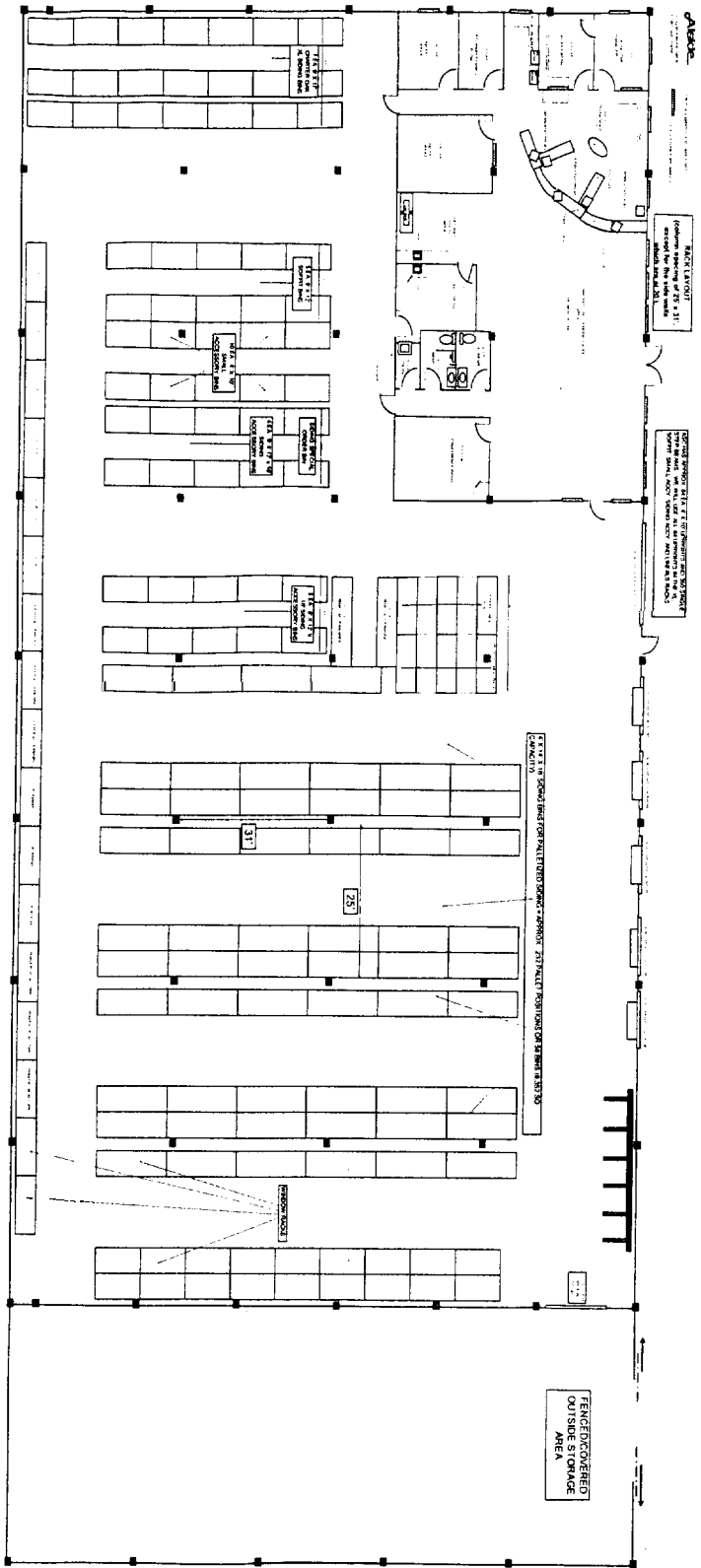


ASISDR  
 RACKING RUD%  
 88 WAREHOUSE  
 Bldg # 10392 ASISDR



ASISIR  
 PACING PAW  
 88 WACH DRIZUR  
 BIX #8  
 1039 RWBISIR

# TRANSMITTAL

CHASE EQUIPMENT CO.  
118 WEST STREETSBORO ROAD #213  
HUDSON OH 44236  
TEL. 330-650-3681 FAX. 330-342-9501

**DATE:** Wednesday, March 16, 2005

**NO. OF PAGES:** 1

**ATTN:** Bob Gaudreau  
Hardyond Construction  
1039 Riverside Street # 11  
Portland ME 04103

**MESSAGE:** RE: Alside Supply Center # 144 - Portland, ME

Please find enclosed:

	sets / copies	General Arrangement Drawings
	sets / copies	Equipment Layout Drawings
2	sets / copies	Rack Elevation Drawings
2	sets / copies	Seismic Analysis / Calculations

For submittal in obtaining necessary permits regarding storage racking.

Note: Calculations in accordance with 2003 I.B.C. as requested.  
by Mr. Nugent with the City of Portland.

Thanks,

Terry L. Yonker



MATERIAL HANDLING ENGINEERING  
EST. 1985

TEL: (909)869-0989

FAX: (909) 869 - 0981

# CANTILEVER

## PRELIMINARY SEISMIC ANALYSIS INFORMATION

DEALER: CHASE EQUIPMENT CUSTOMER: ALSIDE SUPPLY (2003 I.B.C.)  
 SALESMAN: TERRY Y. CITY: PORTLAND, ME 04103  
 BRAND: STEEL KING STURCT.CANTILEVER DATE: MARCH 11, 2005

ZONE \_\_\_\_\_

LOAD/ARM: MAX. 2000 LBS AVE. 1400 LBS UTILIZATION 100 %

**Design load \_\_\_\_\_ # per arm**

SINGLE

DOUBLE

BOTH

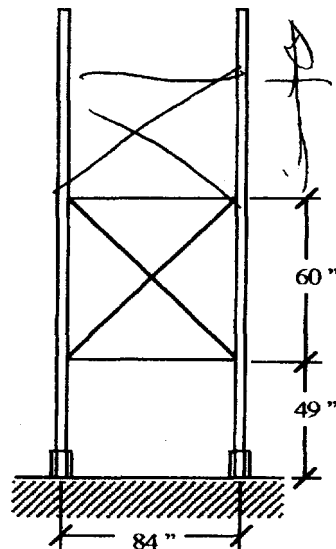
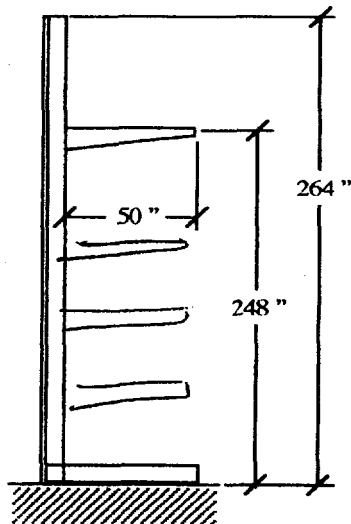
1st ARM ELEV. 68" ARM TO ARM 60" NO. OF ARMS 4

ARM LENGTH 50" COLUMN HEIGHT 264" SPACING C.L. 84"

SLAB THICKNESS 5 SLAB PSI 2000 REINFORCEMENT \_\_\_\_\_

SOIL PSF 1000

NOTES DESIGN BASED ON 2003 I.B.C. FOR ZIP CODE 04103 W/  
 $F_a = 1.5$  &  $S_s = 0.373$   
 4 ARM LEVELS W/ 2,000#/ARM



COLUMN W18 X 21 COLUMN  
264H

BASE CHAN. TO FIT ABOVE COLUMN

ARM S4 X 7.7 ARM  
X 50"L

BRACING 3 X 3 X 3/16TH HORIZ. BRACE & 2 X  
1/4TH FLAT FOR DIAG. X-BRACES W/  
1/2"D (ASTMA325) HARDWARE.

ANCHORING 1 ANCHORS AT EACH END OF BASE.  
MIN. 5/8"D X 5-1/2"L

161 Atlantic Street

Pomona

California 91768



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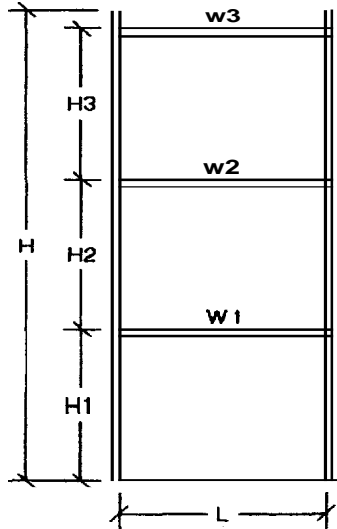
PROJECT: Aside Supply MD ibc  
 FOR: Chase Equipment (Terry Y.)  
 SHEET NO. 8 - 8  
 CALCULATED BY m  
 DATE: 3/10/2005

**COMPONENTS & SPECIFICATIONS - Type S-B**

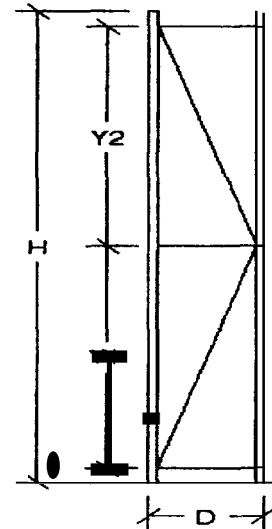
ANALYSIS PER SECTION 2210 OF THE 2000 IBC

- LEVELS = 3
- PANELS = 2
- LIVE LOAD = 1000 lbs.
- FRAME HEIGHT = 120 in.
- FRAME DEPTH = 48 in.
- BEAM LENGTH = 108 in.
- ZONE = D
- TYPE = SINGLE ROW
- MANUFACTURER = INCA

H1 = 40 in.  
 H2 = 40 in.  
 H3 = 40 in.



W1 = 1000 lbs.  
 w2 = 1000 lbs.  
 w3 = 1000 lbs.



Y1 = 51 in.  
 Y2 = 51 in.

<b>COLUMN</b>		<b>BEAM @ Level 1</b>		<b>CONNECTOR @ Level 1</b>	
3x1-5/8x13ga Steel = 55000 psi stress = 25% OK		Step Beam 2.5"x14ga Steel = 55000 psi Max Static Capacity = 341 lb. Stress = 12% OK		TWO PIN CONNECTOR stress = 22% OK	
<b>COLUMN BACKER</b>		<b>BEAM @ Level 2+</b>		<b>CONNECTOR @ Level 2+</b>	
None Stress =		Step Beam 2.5"x14ga Max Static Capacity = 341 lb. stress = 12% OK		TWO PIN CONNECTOR Stress = 14% OK	
<b>BRACING</b>			<b>SLAB &amp; SOIL</b>		
<b>HORIZONTAL</b> OK	<b>DIAGONAL</b> OK	Slab = 5" X 2000 psi Reinforced Soil Bearing Pressure = 1000 psf Slab Puncture Stress = 22% Slab Bending Stress = 8% OK			
Inca 1-1/2 X 1-1/4 X 14ga Stress = 4%	Inca 1-1/2 X 1-1/4 X 14ga Stress = 13%				
<b>BASE PLATE</b>			<b>ANCHORS</b>		
3.1 in X 4.5 in X 0.125 in Steel = 36000 psi MBase = 0 in lb. Stress = 0% OK			Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. Pullout Capacity = 580 lbs. Shear capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor Stress = 1% OK		



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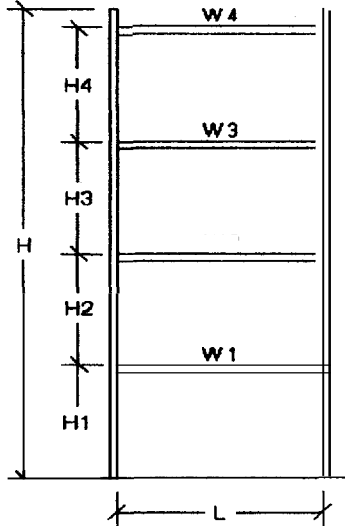
**PROJECT** Alside Supply MD ibc  
**FOR** Chase Equipment (Terry Y.)  
**SHEET NO.** 7 - 8  
**CALCULATED BY** m. obi  
**DATE** 3/10/2005

**COMPONENTS & SPECIFICATIONS - Type 6**

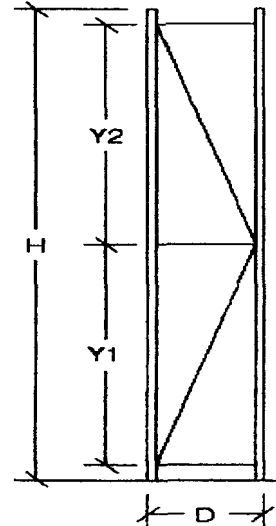
ANALYSIS PER SECTION 22 10 OF THE 2000 IBC

- LEVELS = 4
- PANELS = 2
- LIVE LOAD = 1000 lbs.
- FRAME HEIGHT = 120 in.
- FRAME DEPTH = 48 in.
- BEAM LENGTH = 108 in.
- ZONE = D
- TYPE = SINGLE ROW
- MANUFACTURER = INCA

- H1 = 30 in.
- H2 = 30 in.
- H3 = 30 in.
- H4 = 30 in.



- W1 = 1000 lbs.
- w2 = 1000 lbs.
- w3 = 1000 lbs.
- w4 = 1000 lbs.



Y1 = 51 in  
 Y2 = 51 in

<b>COLUMN</b>		<b>BEAM @ Level 1</b>		<b>CONNECTOR @ Level 1</b>	
3x1-5/8x13ga Steel = 55000 psi stress = 30% OK		StepBeam 2.5"x14ga steel = 55000 psi Max Static Capacity = 341 lb. stress = 12% OK		TWO PIN CONNECTOR stress = 23% OK	
<b>COLUMN BACKER</b>		<b>BEAM @ Level 2+</b>		<b>CONNECTOR @ Level 2+</b>	
None Stress = -		StepBeam 2.5"x14ga Max Static Capacity = 341 lb. stress = 12% OK		TWO PIN CONNECTOR Stress = 16% OK	
<b>BRACING</b>			<b>SLAB &amp; SOIL</b>		
HORIZONTAL OK Inca 1-1/2 X 1-1/4 X 14ga Stress = 5%		DIAGONAL OK Inca 1-1/2 X 1-1/4 X 14ga Stress = 17%		slab = 5" X 2000 psi Reinforced OK Soil Bearing Pressure = 1000 psf slab Puncture stress = 29% Slab Bending Stress = 14%	
<b>BASE PLATE</b>			<b>ANCHORS</b>		
3. f in X 4.5 in X 0.125 in Steel = 36000 psi MBase = 0 in lb. stress = OX OK			Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. OK Pullout capacity = 580 lbs. Shear Capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor stress = 2%		



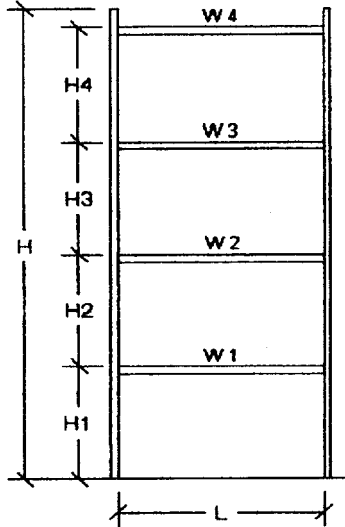
MATERIAL HANDLING ENGINEERING  
 TEL : (909)869 - 0989 FAX : (909)869 - 0981  
 161 ATLANTIC STREET, POMONA, CA 91768

**PROJECT** Alside Supply MD ibc  
**FOR** Chase Equipment (Terry Y.)  
**SHEET NO.** 6 - 8  
**CALCULATED BY** m. obi  
**DATE** 3/10/2005

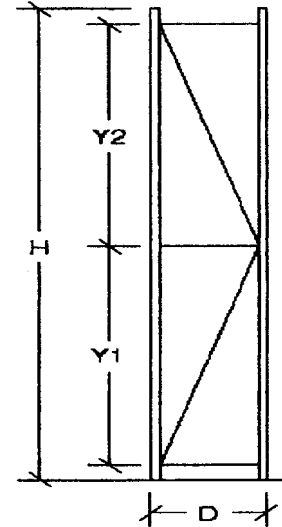
**COMPONENTS & SPECIFICATIONS -Type 8**  
 ANALYSIS PER SECTION 2210 OF THE 2000 IBC

LEVELS = 4  
 PANELS = 2  
 LIVE LOAD = 1000 lbs.  
 FRAME HEIGHT = 120 in.  
 FRAME DEPTH = 48 in.  
 BEAM LENGTH = 108 in.  
 ZONE = D  
 TYPE = SINGLE ROW  
 MANUFACTURER = INCA

H1 = 40 in.  
 H2 = 20 in.  
 H3 = 30 in.  
 H4 = 30 in.



W1 = 1000 lbs.  
 W2 = 1000 lbs.  
 W3 = 1000 lbs.  
 W4 = 1000 lbs.



<b>COLUMN</b>		<b>BEAM @ Level 1</b>	<b>CONNECTOR @ Level 1</b>
3x1-5/8x13ga Steel = 55000 psi stress = 34% <b>OK</b>		StepBeam x2.5"x14ga steel = 55000 psi Max Static Capacity = 341 lb. Stress = 12% <b>OK</b>	TWO PIN CONNECTOR stress = 25% <b>OK</b>
<b>COLUMN BACKER</b>		<b>BEAM @ Level 2+</b>	<b>CONNECTOR @ Level 2+</b>
None stress =		StepBeam x2.5"x14ga Max Static Capacity = 341 lb. stress = 12% <b>OK</b>	TWO PIN CONNECTOR Stress = 14% <b>OK</b>
<b>BRACING</b>		<b>SLAB &amp; SOIL</b>	
<b>HORIZONTAL</b> Inca 1-1/2 X 1-1/4 X 14ga Stress = 5% <b>OK</b>	<b>DIAGONAL</b> Inca 1-1/2 X 1-1/4 X 14ga Stress = 17% <b>OK</b>	Slab = 5" X 2000 psi Reinforced Soil Bearing Pressure = 1000 psf Slab Puncture Stress = 29% Slab Bending Stress = 14% <b>OK</b>	
<b>BASE PLATE</b>		<b>ANCHORS</b>	
3.1 in X 4.5 in X 0.125 in Steel = 36000 psi MBase = 0 in. lb. Stress = 0% <b>OK</b>		Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. Pullout Capacity = 580 lbs. Shear Capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor Stress = 2% <b>OK</b>	



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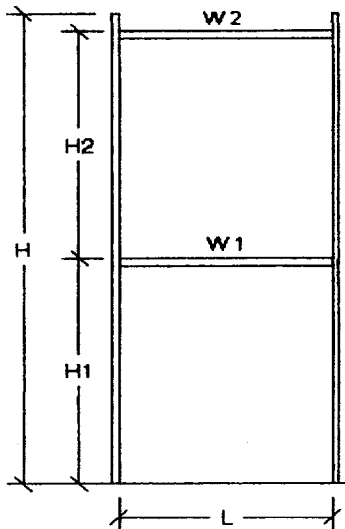
PROJECT Aside Supply MD ibc  
 FOR Chase Equipment (Terry Y.)  
 SHEET NO. 4 - 8  
 CALCULATED BY m. obi  
 DATE 3110/2005

**COMPONENTS & SPECIFICATIONS - Type 9-C/D**

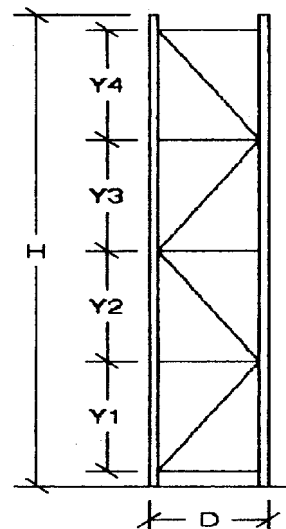
ANALYSIS PER SECTION 22.10 OF THE 2000 IBC

- LEVELS - 2
- PANELS = 4
- LIVE LOAD = 2000 lbs.
- FRAME HEIGHT = 192 in.
- FRAME DEPTH = 48 in.
- BEAM LENGTH = 108 in.
- ZONE = D
- TYPE = SINGLE ROW
- MANUFACTURER = INCA

H1 = 96 in.  
 H2 = 96 in.



W1 = 2000 lbs.  
 W2 = 2000 lbs.



Y1 = 44 in.  
 Y2 = 44 in.  
 Y3 = 44 in.  
 Y4 = 44 in.

<b>COLUMN</b>		<b>BEAM @ Level 1</b>		<b>CONNECTOR @ Level 1</b>	
3x3x14ga steel = 55000 psi stress = 46%	OK	StepBeam 2.5"x14ga steel = 55000 psi Max Static Capacity = 341 lb Stress = 24%	OK	TWO PIN CONNECTOR Stress = 70%	OK
<b>COLUMN BACKER</b>		<b>BEAM @ Level 2+</b>		<b>CONNECTOR @ Level 2+</b>	
		StepBeam 2.5"x14ga Max Static Capacity = 341 lb.	OK	TWO PIN CONNECTOR Stress = 29%	OK
<b>HORIZONTAL</b>	OK	<b>DIAGONAL</b>	OK	Slab = 5" X 2000 psi Reinforced Soil Bearing Pressure = 1000 psf slab Puncture stress = 31% Slab Bending Stress = 16%	
Inca 1-1/2 X 1-1/4 X 14ga stress = 4%		Inca 1-1/2 X 1-1/4 X 14ga Stress = 11%			
<b>BASE PLATE</b>			OK	<b>ANCHORS</b>	
3.1 in X 4.5 in X 0.125 in Steel = 36000 psi MBase = 0 in lb. stress = 0%				Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. Pullout Capacity = 580 lbs. Shear Capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor stress = 2%	





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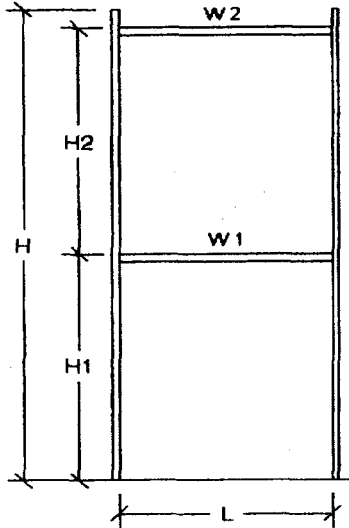
PROJECT Alside Supply MD ibc  
 FOR Chase Equipment (Terry Y.)  
 SHEET NO. 5 - 8  
 CALCULATED BY m. obi  
 DATE 3/10/2005

**COMPONENTS & SPECIFIC** -Type 10

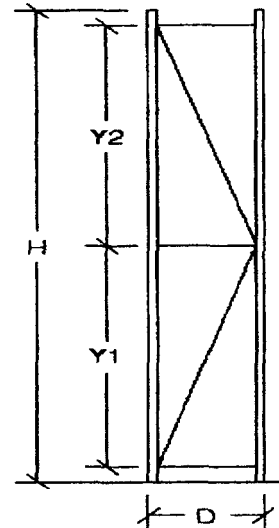
ANALYSIS PER SECTION 2210 OF THE 2000 IBC

LEVELS = 2  
 PANELS = 2  
 LIVE LOAD = 1000 lbs.  
 FRAME HEIGHT = 120 in.  
 FRAME DEPTH = 48 in.  
 BEAM LENGTH = 108 in.  
 ZONE - D  
 TYPE = SINGLE ROW  
 MANUFACTURER = INCA

H1 = 46 in.  
 H2 = 36 in.



W1 = 1000 lbs  
 W2 = 1000 lbs



Y1 = 51 in.  
 Y2 = 51 in.

<b>COLUMN</b>		<b>BEAM @ Level 1</b>	<b>CONNECTOR @ Level 1</b>
3x1-5/8x13ga Steel = 55000 psi Stress = 18%		StepBeam x2.5"x14ga steel = 55000 psi Max Static Capacity = 341 lb. stress = 12% OK	TWO PIN CONNECTOR Stress = 17% OK
<b>COLUMN BACKER</b>		<b>BEAM @ Level 2+</b>	<b>CONNECTOR @ Level 2+</b>
None		StepBeam x2.5"x14ga Max Static capacity = 341 lb. OK	TWO PIN CONNECTOR Stress = 8% OK
<b>BRACING</b>		<b>SLAB &amp; SOIL</b>	
<b>HORIZONTAL</b> OK Inca 1-1/2 X 1-1/4 X 14ga stress = 3%	<b>DIAGONAL</b> OK Inca 1-1/2 X 1-1/4 X 14ga stress = 8%	Slab = 5' X 2000 psi Reinforced Soil Bearing Pressure = 1000 psf Slab Puncture Stress = 14% Slab Bending stress = 3% OK	
<b>BASE PLATE</b>		<b>ANCHORS</b>	
3.1 in X 4.5 in X 0.125 in steel = 36000 psi MBase = 0 in. lb. stress = 0% OK		Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. Pullout Capacity = 580 lbs. Shear Capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor Stress = 1% OK	



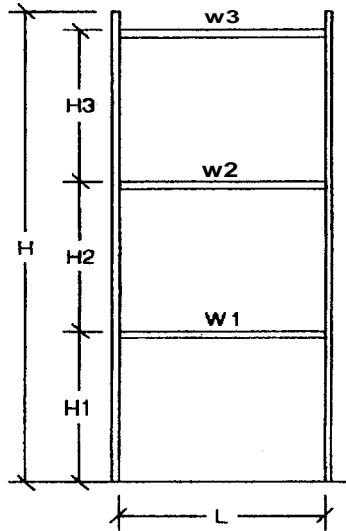
**MATERIAL HANDLING ENGINEERING**  
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**PROJECT** Alsido Supply MD ibc  
 FOR Chase Equipment (Terry Y.)  
**SHEET NO.** 3 - 8  
**CALCULATED BY** m. obi  
**DATE** 3/10/2005

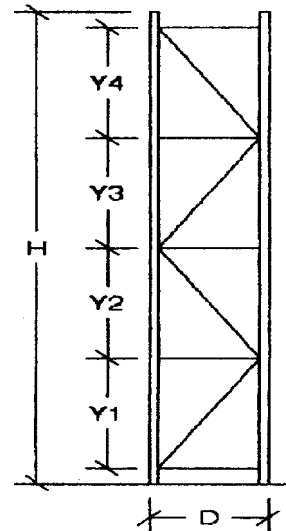
**COMPONENTS & SPECIFICATIONS** -Type 26

ANALYSIS PER SECTION 2210 OF THE IBC

LEVELS = 3 HI = 62 in.  
 PANELS = 4 H2 = 62 in.  
 LIVE LOAD = 2000 lbs. H3 = 62 in.  
 FRAME HEIGHT = 192 in.  
 FRAME DEPTH = 48 in.  
 BEAM LENGTH = 108 in.  
 ZONE = D  
 TYPE = SINGLE ROW  
 MANUFACTURER = INCA



W1 = 2000 lbs.  
 W2 = 2000 lbs.  
 W3 = 2000 lbs.



Y1 = 44 in.  
 Y2 = 44 in.  
 Y3 = 44 in.  
 Y4 = 44 in.

<b>COLUMN</b>		<b>BEAM @ Level 1</b>		<b>CONNECTOR @ Level 1</b>	
3x3x14ga Steel = 55000 psi Stress = 44% OK		StepBeam x2.5"x14ga Steel = 55000 psi Max Static Capacity = 41 lb. Stress = 24% OK		TWO PIN CONNECTOR Stress = 72% OK	
<b>COLUMN BACKER</b>		<b>BEAM @ Level 2+</b>		<b>CONNECTOR @ Level 2+</b>	
None stress =		StepBeam x2.5"x14ga Max Static Capacity = 41 lb. Stress = 24% OK		TWO PIN CONNECTOR stress = 42% OK	
<b>BRACING</b>			<b>SLAB &amp; SOIL</b>		
HORIZONTAL	OK	DIAGONAL	OK	Slab = 5" X 2000 psi Reinforced Soil Bearing Pressure = 1000 psf Slab Puncture Stress = 45% Slab Bending Stress = 31% OK	
Stress = 7%		Inca 1-1/2 X 1-1/4 X 14ga Stress = 16%			
<b>BASE PLATE</b>			<b>ANCHORS</b>		
OK			Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. Pullout Capacity = 580 lbs. Shear Capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor Stress = 4% OK		
Stress = 0%					



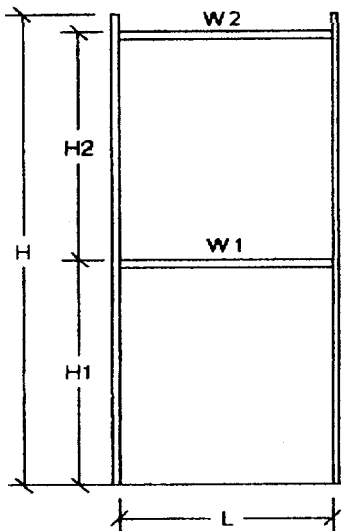
MATERIAL HANDLING ENGINEERING  
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PROJECT Alside Supply MD ibc  
 FOR Chase Equipment (Terry Y. )  
 SHEET NO. 2 - 8  
 CALCULATED BY m. obi  
 DATE 3/10/2005

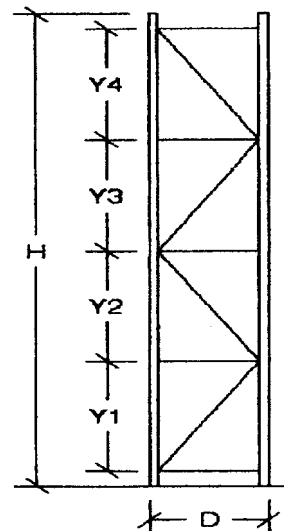
**COMPONENTS & SPECIFICATIONS - Type 28**

ANALYSIS PER SECTION 22 10 OF THE 2000 IBC

LEVELS = 2  
 H1 = 96 in.  
 H2 = 96 in.  
 PANELS = 4  
 LIVE LOAD = 2000 lbs.  
 FRAME HEIGHT = 192 in.  
 FRAME DEPTH = 48 in.  
 BEAM LENGTH = 168 in.  
 ZONE = D  
 TYPE = SINGLE ROW  
 MANUFACTURER = INCA



W1 = 2000 lbs.  
 W2 = 2000 lbs.



Y1 = 44 in.  
 Y2 = 44 in.  
 Y3 = 44 in.  
 Y4 = 44 in.

<b>COLUMN</b>		<b>BEAM @ Level 1</b>		<b>CONNECTOR @ Level 1</b>	
OK 3x3x14ga steel = 55000 psi stress = 46%		OK StepBeam 6"x2.5"x14ga Steel = 55000 psi Max Static Capacity = 4788 lb Stress = 42%		OK TWO PIN CONNECTOR Stress = 62%	
<b>COLUMN BACKER</b>		<b>BEAM @ Level 2</b>		<b>CONNECTOR @ Level 2</b>	
None Stress =		OK StepBeam 6"x2.5"x14ga Max Static Capacity = 4788 lb. Stress = 42%		OK TWO PIN CONNECTOR stress = 20%	
<b>BRACING</b>			<b>SLAB &amp; SOIL</b>		
HORIZONTAL OK Inca 1-1/2 X 1-1/4 X 14ga stress = 4%		DIAGONAL OK Inca 1-1/2 X 1-1/4 X 14ga stress = 11%		OK Slab = 5" X 2000 psi Reinforced Soil Bearing Pressure = 1000 psf slab Puncture stress = 31% Slab Bending Stress = 16%	
<b>BASE PLATE</b>			<b>ANCHORS</b>		
OK 3.1 in X 4.5 in X 0.125 in Steel = 36000 psi MBase = 0 in. lb. stress = 0%			OK Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. Pullout Capacity = 580 lbs. shear Capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor Stress = 2%		



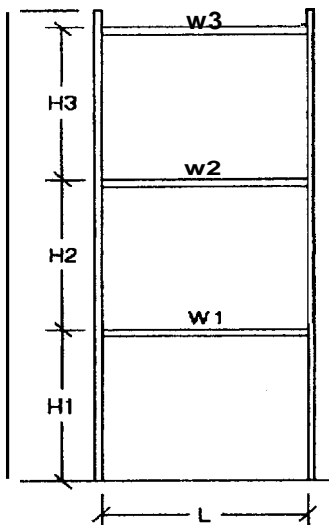
MATERIAL HANDLING ENGINEERING  
 TEL : (909)869 - 0989 FAX : (909)869 - 0981  
 161 ATLANTIC STREET, POMONA CA 91768

PROJECT Alside Supply MD ibc  
 FOR Chase Equipment (Terry Y.)  
 SHEET NO. 1 - 8  
 CALCULATED BY m obi  
 DATE 3/10/2005

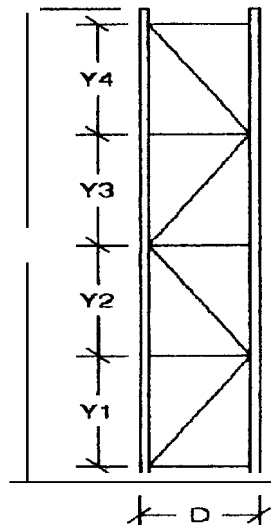
**COMPONENTS & SPECIFICATIONS -Type 30**  
 ANALYSIS FER SECTION 2210 OF THE 2000 IBC

LEVELS = 3  
 PANELS = 4  
 LIVELOAD = 2000 lbs.  
 FRAME HEIGHT = 192 in.  
 FRAME DEPTH = 48 in.  
 BEAM LENGTH = 168 in.  
 ZONE = D  
 TYPE = SINGLE ROW  
 MANUFACTURER = INCA

H1 = 62 in.  
 H2 = 62 in.  
 H3 = 62 in.



W1 = 2000 lbs.  
 W2 = 2000 lbs.  
 W3 = 2000 lbs.



Y1 = 44 in.  
 Y2 = 44 in.  
 Y3 = 44 in.  
 Y4 = 44 in.

<b>COLUMN</b>		<b>BEAM @ Level 1</b>	<b>CONNECTOR @ Level 1</b>
3x3x14ga Steel = 55000 psi stress = 44%	OK	StepBeam 6"x2.5"x14ga steel = 55000 psi Max Static Capacity = 4788 lb. Stress = 42%	TWO PIN CONNECTOR stress = 63%
<b>COLUMN BACKER</b>		<b>BEAM @ Level 2+</b>	<b>CONNECTOR @ Level 2+</b>
None Stress =		StepBeam 6"x2.5"x14ga Max Static Capacity = 4788 lb. stress = 42%	TWO PIN CONNECTOR stress = 33%
<b>BRACING</b>		<b>SLAB &amp; SOIL</b>	
<b>HORIZONTAL</b> OK Inca 1-1/2 X 1-1/4 X 14ga Stress = 7%	<b>DIAGONAL</b> OK Inca 1-1/2 X 1-1/4 X 14ga Stress = 16%	Slab = 5" X 2000 psi Reinforced OK Soil Bearing Pressure = 1000 psf Slab Puncture Stress = 45% Slab Bending Stress = 31%	
<b>BASE PLATE</b>		<b>ANCHORS</b>	
Stress = 0%		Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. OK Pullout Capacity = 580 lbs. Shear Capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor Stress = 4%	



MATERIAL HANDLING ENGINEERING  
EST. 1985

TEL: (909)869-0989

FAX: (909) 869-0981

# CANTILEVER

## PRELIMINARY SEISMIC ANALYSIS INFORMATION

DEALER: CHASEEQUIPMENT CUSTOMER: ALSIDE SUPPLY (2003 I.B.C.)  
 SALESMAN: TERRY Y. CITY: PORTLAND, ME 04103  
 BRAND: STEEL KING STURCT.CANTILEVER DATE: MARCH 11, 2005

ZONE \_\_\_\_\_

LOAD/ARM: MAX. 2000 LBS AVE. 1400 LBS UTILIZATION 100 %

**Design load \_\_\_\_\_ # per arm**

SINGLE

DOUBLE

BOTH

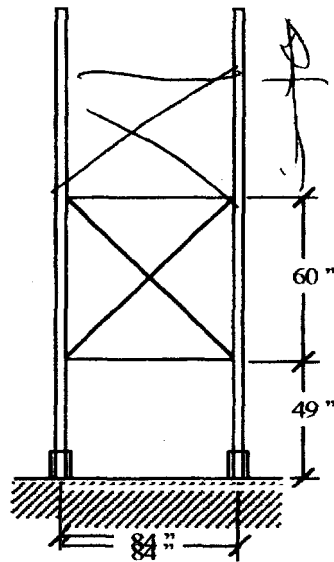
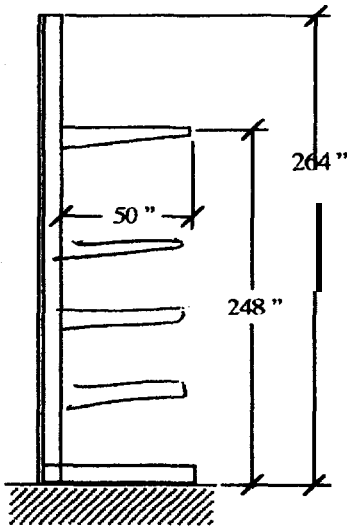
1st ARM ELEV. 68 ARM TO ARM 60 NO. OF ARMS 4

ARM LENGTH 50 COLUMN HEIGHT 264 SPACING C.L. 84

SLAB THICKNESS 5 SLAB PSI 2000 REINFORCEMENT \_\_\_\_\_

SOIL PSF 1000

NOTES DESIGN BASED ON 2003 I.B.C. FOR ZIP CODE 04103 W/  
 $F_a = 1.58$   $S_s = 0.373$   
 4 ARM LEVELS W/ 2,000#/ARM



COLUMN W18 X 21 COLUMN  
264H

BASE CHAN. TO FIT ABOVE COLUMN

ARM S4 X 7.7 ARM  
X 50"L

BRACING 3 X 3 X 3/16TH HORIZ. BRACE & 2 X  
1/4TH FIAT FOR DIAG. X-BRACES W/  
1/2"D (ASTM A325) HARDWARE.

ANCHORING 1 ANCHORS AT EACH END OF BASE  
MIN. 5/8"D X 5-1/2"L

161 Atlantic Street

Pomona

California 91768



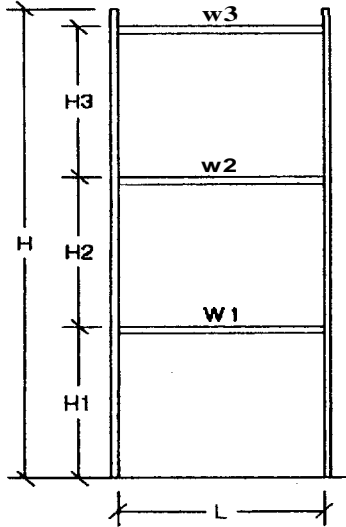
MATERIAL HANDLING ENGINEERING  
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 161 ATLANTIC STREET, POMONA, CA 91768

PROJECT Alside Supply MD ibc  
 FOR Chase Equipment (Terry Y.)  
 SHEET NO. 8 - 8  
 CALCULATED BY m. obi  
 DATE 3/10/2005

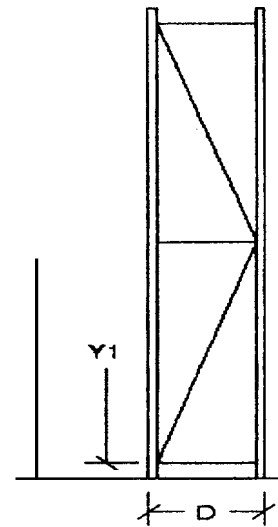
**COMPONENTS & SPECIFICATIONS : Type 5-B**  
 ANALYSIS PER SECTION 2210 OF THE 2000 IBC

LEVELS = 3  
 PANELS = 2  
 LIVE LOAD = 1000 lbs.  
 FRAME HEIGHT = 120 in.  
 FRAME DEPTH = 48 in.  
 BEAM LENGTH = 108 in.  
 ZONE = D  
 TYPE = SINGLE ROW  
 MANUFACTURER = INCA

H1 = 40 in.  
 H2 = 40 in.  
 H3 = 40 in.



W1 = 1000 lbs.  
 W2 = 1000 lbs.  
 W3 = 1000 lbs.



Y1 = 51 in.  
 Y2 = 51 in.

COLUMN		1		ONE @ I :
OK 3x1-5/8x13ga Steel = 55000 psi stress = 25%		OK StepBeam 2.5"x14ga Steel = 55000 psi Max Static Capacity = 341 lb. Stress = 12%		OK TWO PIN CONNECTOR stress = 22Yo
COLUMN BACKER		BEAM @ Level 2+		CONNECTOR @ Level 2+
None stress =		OK StepBeam 2.5"x14ga Max Static Capacity = 341 lb. stress = 12%		OK TWO PIN CONNECTOR Stress = 14%
<b>BRACING</b>		<b>SLAB &amp; SOIL</b>		
HORIZONTAL OK Inca 1-1/2 X 1-114 X 14ga Stress = 4%	DIAGONAL OK Inca 1-1/2 X 1-114 X 14ga Stress = 13%	Slab = 5" X 2000 psi Reinforced OK Soil Bearing Pressure = 1000 psf Slab Puncture Stress = 22% Slab Bending Stress = 8%		
<b>BASE PLATE</b>		<b>ANCHORS</b>		
OK 3.1 in X 4.5 in X 0.125 in Steel = 36000 psi MBase = 0 in. lb. Stress = 0%		OK Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. Pullout Capacity = 580 lbs. Shear Capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor Stress = 1%		



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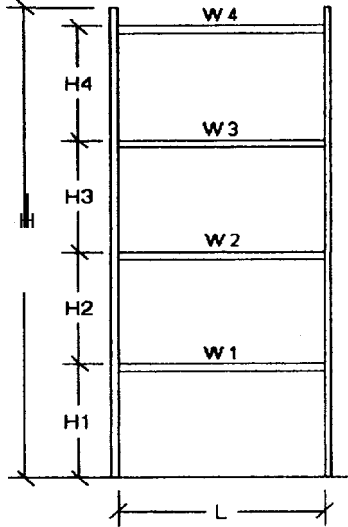
PROJECT **Alside Supply MD ibc**  
 FOR **chase Equipment (Terry Y.)**  
 SHEET NO. **7 - d**  
 CALCULATED BY **m. obi**  
 DATE **3/10/2005**

**COMPONENTS & SPECIFICATIONS - Type 6**

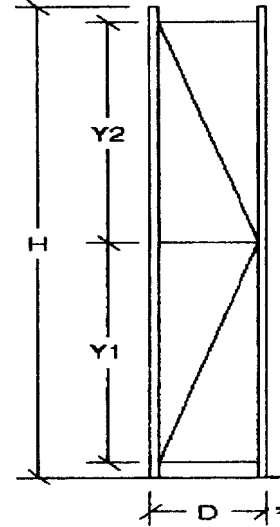
ANALYSIS PER SECTION 2210 OF THE 2000 IBC

LEVELS = 4  
 PANELS = 2  
 LIVE LOAD = 1000 lbs.  
 FRAME HEIGHT = 120 in.  
 FRAME DEPTH = 48 in.  
 BEAM LENGTH = 108 in.  
 ZONE = D  
 TYPE = SINGLE ROW  
 MANUFACTURER = INCA

H1 = 30 in.  
 H2 = 30 in.  
 H3 = 30 in.  
 H4 = 30 in.



W1 = 1000 lbs.  
 W2 = 1000 lbs.  
 W3 = 1000 lbs.  
 W4 = 1000 lbs.



Y1 = 51 in.  
 Y2 = 51 in.

<b>COLUMN</b>		<b>BEAM @ Level 1</b>	<b>CONNECTOR @ Level 1</b>
3x1-5/8x13ga Steel = 55000 psi stress = 30%	OK	Step Beam 4x2.5"x14ga Steel = 55000 psi Max Static Capacity = 341 lb. stress = 12%	TWO PIN CONNECTOR stress = 23%
<b>COLUMN BACKER</b>		<b>BEAM @ Level 2+</b>	<b>CONNECTOR @ Level 2+</b>
None stress =		Step Beam 4x2.5"x14ga Max Static Capacity = 341 lb. stress = 12%	TWO PIN CONNECTOR Stress = 16%
<b>BRACING</b>		<b>SLAB &amp; SOIL</b>	
<b>HORIZONTAL</b> OK Inca 1-1/2 X 1-1/4 X 14ga Stress = 5%	<b>DIAGONAL</b> OK Inca 1-1/2 X 1-1/4 X 14ga Stress = 17%	Slab = 5" X 2000 psi Reinforced OK Soil Bearing Pressure = 1000 psf Slab Puncture Stress = 29% Slab Bending Stress = 14%	
		<b>ANCHORS</b>	
		Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. OK Pullout Capacity = 580 lbs. Shear Capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor Stress = 2%	



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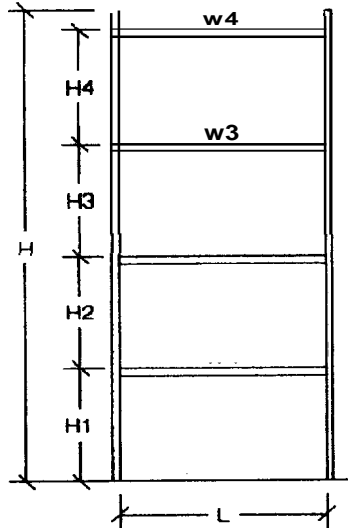
PROJECT Alside Supply MD ibc  
 FOR Chase Equipment (Terry Y.)  
 SHEET NO. 6 - 8  
 CALCULATED BY m. obi  
 DATE 3/10/2005

**COMPONENTS & SPECIFICATIONS - Type 8**

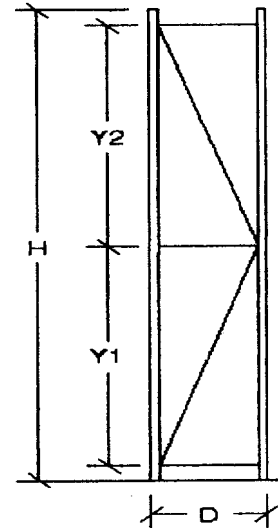
ANALYSIS PER SECTION 2210 OF THE 2000 IBC

LEVELS = 4  
 PANELS = 2  
 LIVE LOAD = 1000 lbs.  
 FRAME HEIGHT = 120 in.  
 FRAME DEPTH = 48 in.  
 BEAM LENGTH = 108 in.  
 ZONE = D  
 TYPE = SINGLE ROW  
 MANUFACTURER = INCA

H1 = 40 in.  
 H2 = 20 in.  
 H3 = 30 in.  
 H4 = 30 in.



W1 = 1000 lbs.  
 W2 = 1000 lbs.  
 W3 = 1000 lbs.  
 W4 = 1000 lbs.



Y1 = 51 in.  
 Y2 = 51 in.

<b>COLUMN</b>		<b>BEAM @ Level 1</b>	<b>CONNECTOR @ Level 1</b>
3x1-5/8x13ga Steel = 55000 psi Stress = 34% <b>OK</b>		StepBeam 2.5"x14ga Steel = 55000 psi Max Static Capacity 341 lb. stress = 12% <b>OK</b>	TWO PIN CONNECTOR Stress = 25% <b>OK</b>
<b>COLUMN BACKER</b>		<b>BEAM @ Level 2+</b>	<b>CONNECTOR @ Level 2+</b>
None		StepBeam 2.5"x14ga Max Static Capacity = 341 lb. <b>OK</b>	TWO PIN CONNECTOR Stress = 14% <b>OK</b>
<b>BRACING</b>		<b>SLAB &amp; SOIL</b>	
HORIZONTAL Inca 1-1/2 X 1-114 X 14ga stress = 5% <b>OK</b>	DIAGONAL, Inca 1-1/2 X 1-114 X 14ga Stress = 17% <b>OK</b>	Slab = 5" X 2000 psi Reinforced Soil Bearing Pressure = 1000 psf Slab puncture Stress = 29% Slab Bending Stress = 14% <b>OK</b>	
<b>BASE PLATE</b>		<b>ANCHORS</b>	
3.1 in X 4.5 in X 0.125 in Steel = 36000 psi MBase = 0 in. lb stress = 0% <b>OK</b>		Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. Pullout Capacity = 580 lbs. Shear Capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor Stress = 2% <b>OK</b>	





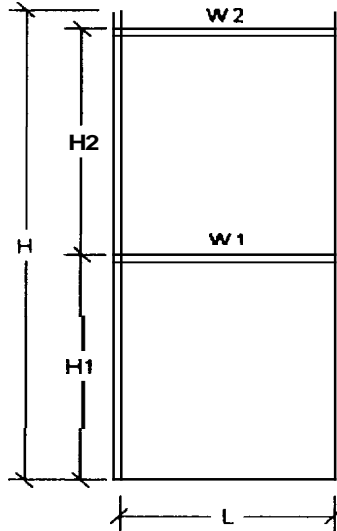
MATERIAL HANDLING ENGINEERING  
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PROJECT Aside Supply MD ibc  
 FOR Chase Equipment (Terry Y.)  
 SHEET NO. 4 - 8  
 CALCULATED BY m. obi  
 DATE 3/10/2005

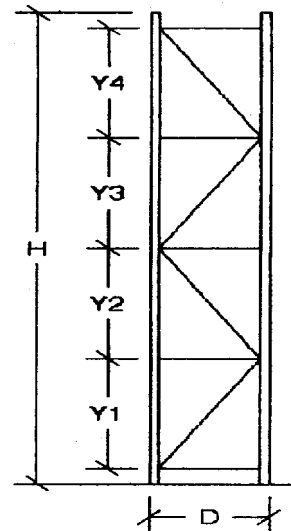
**COMPONENTS & SPECIFICATIONS - Type 2-C/D**  
 ANALYSIS PER SECTION 22.10 OF THE 2000 IBC

LEVELS = 2  
 PANELS = 4  
 LIVE LOAD = 2000 lbs.  
 FRAME HEIGHT = 192 in.  
 FRAME DEPTH = 48 in.  
 BEAM LENGTH = 108 in.  
 ZONE = D  
 TYPE = SINGLE ROW  
 MANUFACTURER = INCA

H1 = 96 in.  
 H2 = 96 in.



W1 = 2000 lbs.  
 W2 = 2000 lbs.



Y1 = 44 in.  
 Y2 = 44 in.  
 Y3 = 44 in.  
 Y4 = 44 in.

<b>COLUMN</b>	<b>BEAM @ Level 1</b>	<b>CONNECTOR @ Level 1</b>
3x3x14ga steel = 55000 psi Stress = 46% OK	StepBeam 2.5"x14ga Steel = 55000 psi Max Static Capacity = 341 lb. Stress = 24% OK	TWO PIN CONNECTOR Stress = 70% OK
<b>COLUMN BACKER</b>	<b>BEAM @ Level 2+</b>	<b>CONNECTOR @ Level 2+</b>
None stress =	StepBeam 2.5"x14ga Max Static Capacity = 341 lb. Stress = 24% OK	TWO PIN CONNECTOR stress = 29% OK
<b>BRACING</b>		<b>SLAB &amp; SOIL</b>
HORIZONTAL OK Inca 1-1/2 X 1-1/4 X 14ga Stress = 4%	DIAGONAL OK Inca 1-1/2 X 1-1/4 X 14ga stress = 11%	Slab = 5" X 2000 psi Reinforced OK Soil Bearing Pressure = 1000 psf Slab Puncture Stress = 31% Slab Bending Stress = 16%
<b>ANCHORS</b>		
B = 3.1 in X 4.5 in X 0.125 in Steel = 36000 psi MBase = 0 in. lb. Stress = 0% OK		Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. OK pullout Capacity = 580 lbs. Shear Capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor Stress = 2%



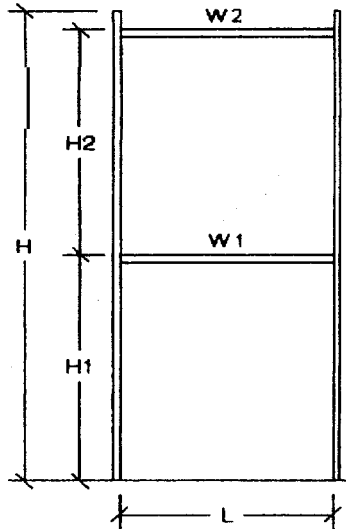
MATERIAL HANDLING ENGINEERING  
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 161 ATLANTIC STREET, POMONA CA 91768

PROJECT **Aside Supply MD ibc**  
 FOR **chase Equipment (Terry Y.)**  
 SHEET NO. **5 - 8**  
 CALCULATED BY **m. obi**  
 DATE **3/10/2005**

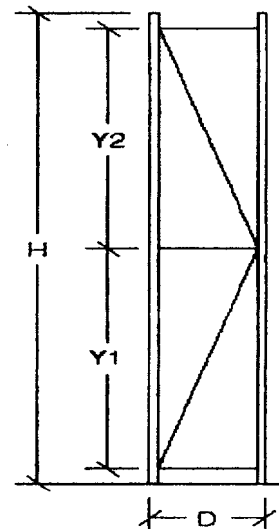
**COMPONENTS & SPECIFICATIONS ; Type 10**  
 ANALYSIS PER SECTION 2210 OF THE 2000 IBC

LEVELS = 2  
 PANELS = 2  
 LIVE LOAD = **1000 lbs.**  
 FRAME HEIGHT = **120 in.**  
 FRAME DEPTH = **48 in.**  
 BEAM LENGTH = **108 in.**  
 ZONE = **D**  
 TYPE = SINGLE ROW  
 MANUFACTURER = **INCA**

H1 = 46 in.  
 H2 = 36 in.



W1 = 1000 lbs.  
 W2 = 1000 lbs.



Y1 = 51 in  
 Y2 = 51 in

<b>COLUMN</b>		<b>BEAM @ Level 1</b>	<b>CONNECTOR @ Level 1</b>
3x1-5/8x13ga Steel = 55000 psi stress = <b>18%</b>	<b>OK</b>	StepBeam 2.5"x14ga Steel = 55000 psi Max Static Capacity = 341 lb. Stress = <b>12%</b>	TWO PIN CONNECTOR Stress = <b>17%</b>
<b>COLUMN BACKER</b>		<b>BEAM @ Level 2+</b>	<b>CONNECTOR @ Level 2+</b>
None		StepBeam 2.5"x14ga Max Static Capacity = 341 lb.	TWO PIN CONNECTOR Stress = <b>8%</b>
<b>BRACING</b>		<b>SLAB &amp; SOIL</b>	
HORIZONTAL <b>OK</b> Inca 1-1/2 X 1-1/4 X 14ga stress = <b>3%</b>	DIAGONAL <b>OK</b> Inca 1-1/2 X 1-1/4 X 14ga stress = <b>8%</b>	Slab = 5" X 2000 psi Reinforced <b>OK</b> Soil Bearing Pressure = 1000 psf Slab Puncture Stress = <b>14%</b> Slab Bending Stress = <b>3%</b>	
<b>BASE PLATE</b>		<b>ANCHORS</b>	
3.1 in X 4.5 in X 0.125 in Steel = 36000 psi MBase = 0 in. lb. stress = <b>0%</b>		Ramset/Redhead Trubolt 0.5Dia. X 2.25 Min. Embd. <b>OK</b> Pullout Capacity = 580 lbs. Shear Capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor Stress = <b>1%</b>	



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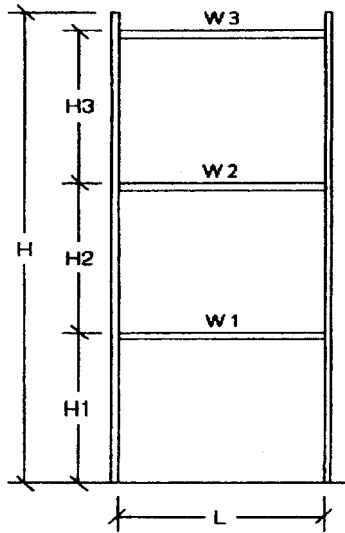
PROJECT Alside Supply MD ibc  
 FOR Chase Equipment (Terry Y.)  
 SHEET NO. 3 - 8  
 CALCULATED BY m. obi  
 DATE 3/10/2005

**COMPONENTS & SPECIFICATIONS : Type 26**

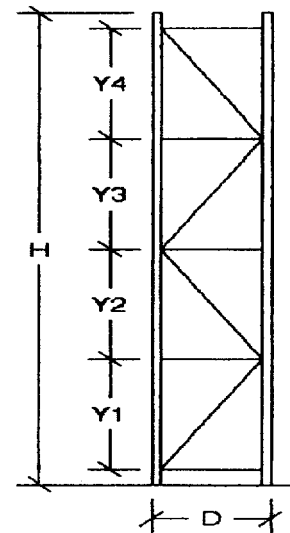
ANALYSIS PER SECTION 22.10 OF THE 2000 IBC

LEVELS = 3  
 PANELS = 4  
 LIVE LOAD = 2000 lbs.  
 FRAME HEIGHT = 192 in.  
 FRAME DEPTH = 48 in.  
 BEAM LENGTH = 108 in.  
 ZONE = D  
 TYPE = SINGLE ROW  
 MANUFACTURER = INCA

H1 = 62 in.  
 H2 = 62 in.  
 H3 = 62 in.



W1 = 2000 lbs.  
 W2 = 2000 lbs.  
 W3 = 2000 lbs.



Y1 = 44 in.  
 Y2 = 44 in.  
 Y3 = 44 in.  
 Y4 = 44 in.

<b>COLUMN</b>		<b>BEAM @ Level 1</b>	<b>CONNECTOR @ Level 1</b>
3x3x14ga Steel = 55000 psi Stress = 44%	OK	StepBeam 2.5"x14ga Steel = 55000 psi Max Static Capacity = 341 lb. stress = 24%	TWO PIN CONNECTOR Stress = 72%
<b>COLUMN BACKER</b>		<b>BEAM @ Level 2+</b>	<b>CONNECTOR @ Level 2+</b>
None stress =		StepBeam 2.5"x14ga Max Static Capacity = 341 lb. stress = 24%	TWO PIN CONNECTOR Stress = 42%
<b>BRACING</b>		<b>SLAB &amp; SOIL</b>	
HORIZONTAL Inca 1-1/2 X 1-1/4 X 14ga stress = 7%	OK	DIAGONAL Inca 1-1/2 X 1-1/4 X 14ga Stress = 16%	OK
<b>BASE PLATE</b>		<b>ANCHORS</b>	
3.1 in X 4.5 in X 0.125 in Steel = 36000 psi MBase = 0 in lb. stress = 0%	OK	Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. pullout Capacity = 580 lbs. shear Capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor Stress = 4%	OK



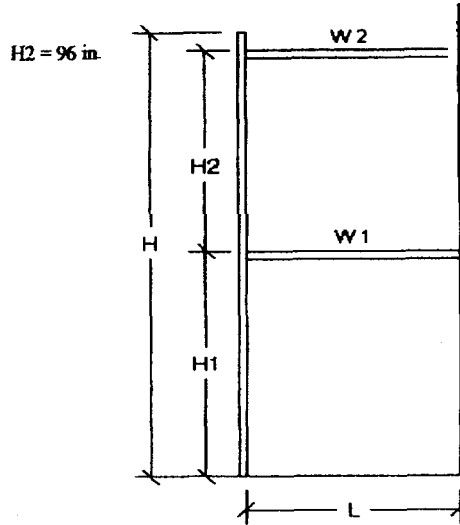
MATERIAL HANDLING ENGINEERING  
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**PROJECT** Alside supply MD ibc  
**FOR** Chase Equipment (Terry Y.)  
**SHEET NO.** 2 - 8  
**CALCULATED BY** m. obi  
**DATE** 31/10/2005

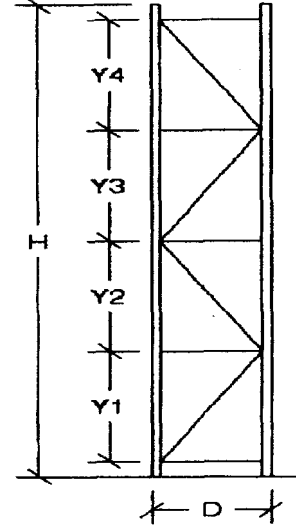
**COMPONENTS & SPECIFICATIONS - Type 28**

ANALYSIS PER SECTION 2210 OF THE 2000 IBC

LEVELS = 2  
 PANELS = 4  
 LIVE LOAD = 2000 lbs.  
 FRAME HEIGHT = 192 in.  
 FRAME DEPTH = 48 in.  
 BEAM LENGTH = 168 in.  
 ZONE = D  
 TYPE = SINGLE ROW  
 MANUFACTURER = INCA



W1 = 2000 lbs.  
 W2 = 2000 lbs.



Y1 = 44 in.  
 Y2 = 44 in.  
 Y3 = 44 in.  
 Y4 = 44 in.

<b>COLUMN</b>		<b>BEAM @ Level 1</b>	<b>CONNECTOR @ Level 1</b>
OK	3x3x14ga steel = 55000 psi stress = 46%	OK StepBeam 6"x2.5"x14ga steel = 55000 psi Max Static Capacity = 4788 lb. Stress = 42%	OK TWO PIN CONNECTOR Stress = 62%
<b>COLUMN BACKER</b>		<b>BEAM @ Level 2+</b>	<b>CONNECTOR @ Level 2+</b>
		OK StepBeam 6"x2.5"x14ga Max Static Capacity = 4788 lb.	OK TWO PIN CONNECTOR stress = 20%
<b>BRACING</b>		<b>SLAB &amp; SOIL</b>	
<b>HORIZONTAL</b> OK	<b>DIAGONAL</b> OK	slab = 5" X 2000 psi Reinforced OK Soil Bearing Pressure = 1000 psf Slab Puncture Stress = 31% Slab Bending Stress = 16%	
Inca 1-1/2 X 1-1/4X 14ga stress = 4%	Inca 1-1/2 X 1-1/4X 14ga stress = 11%		
<b>BASE PLATE</b>		<b>ANCHORS</b>	
OK 3.1 in X 4.5 in X 0.125 in steel = 36000 psi MBase = 0 in. lb. stress = 0%		OK Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. Pullout Capacity = 580 lbs. shear capacity = 1190 lbs. No. of Anchors = 1 per Base Plate Anchor stress = 2%	



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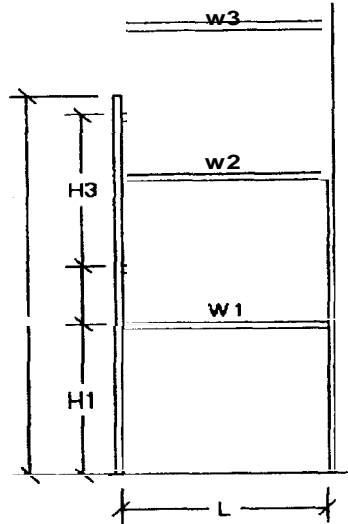
PROJECT Alside Supply MD ibc  
 FOR Chase Equipment (Terry Y.)  
 SHEET NO. 1-8  
 CALCULATED BY m. obi  
 DATE 3/10/2005

**COMPONENTS & SPECIFICATIONS -Type 30**

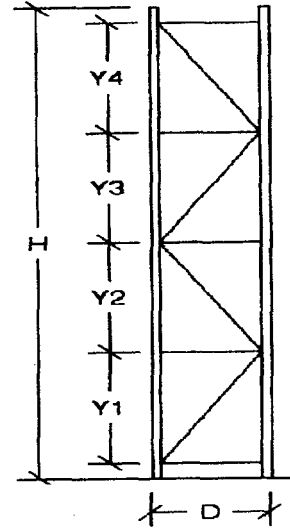
ANALYSIS PER SECTION 2210 OF THE 2000 IBC

LEVELS = 3  
 PANELS = 4  
 LIVE LOAD = 2000 lbs.  
 FRAME HEIGHT = 192 in.  
 FRAME DEPTH = 48 in.  
 BEAM LENGTH = 168 in.  
 ZONE = D  
 TYPE = SINGLE ROW  
 MANUFACTURER = INCA

H1 = 62 in  
 H2 = 62 in  
 H3 = 62 in



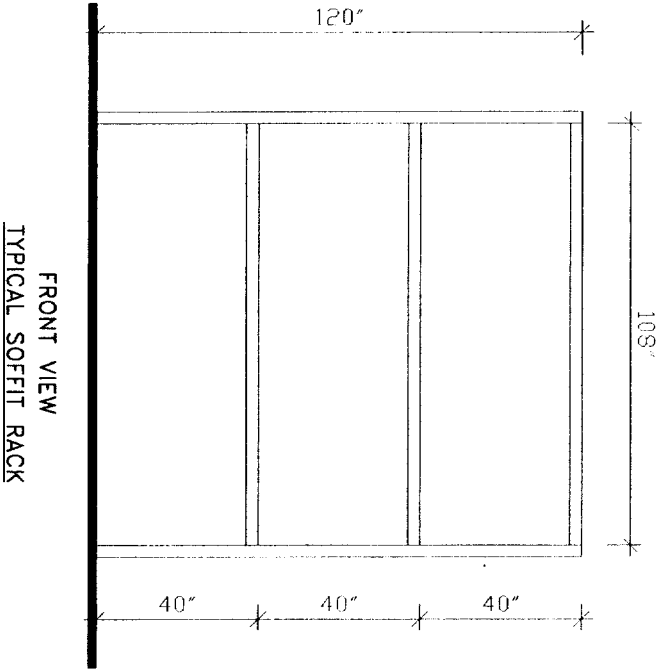
W1 = 2000 lbs  
 w2 = 2000 lbs  
 w3 = 2000 lbs



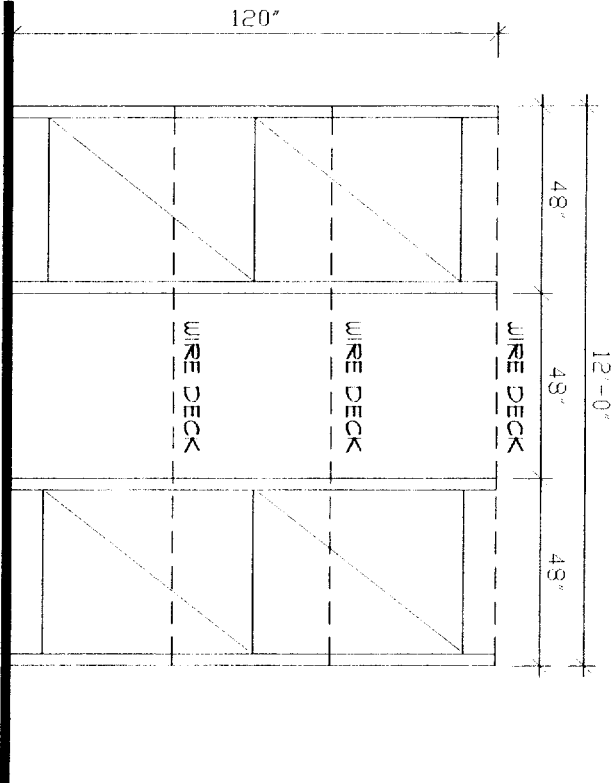
Y1 = 44 in.  
 Y2 = 44 in.  
 Y3 = 44 in.  
 Y4 = 44 in.

<b>COLUMN</b>		<b>BEAM @ Level 1</b>		<b>CONNECTOR @ Level 1</b>	
OK		OK		OK	
3x3x14ga Steel = 55000 psi Stress = 44%		StepBeam 6"x2.5"x14ga Steel = 55000 psi Max Static Capacity = 4788 lb. Stress = 42%		TWO PIN CONNECTOR stress = 63%	
<b>COLUMN BACKER</b>		<b>BEAM @ Level 2+</b>		<b>CONNECTOR @ Level 2+</b>	
None Stress =		OK		OK	
StepBeam 6"x2.5"x14ga Max Static Capacity = 4788 lb. Stress = 42%		TWO PIN CONNECTOR stress = 33%			
<b>BRACING</b>			<b>SLAB &amp; SOIL</b>		
<b>HORIZONTAL</b>	OK	<b>DIAGONAL</b>	OK	OK	
Inca 1-1/2 X 1-1/4 X 14ga Stress = 7%		Inca 1-1/2 X 1-1/4 X 14ga Stress = 16%		Slab = 5" X 2000 psi Reinforced Soil Bearing Pressure = 1000 psf Slab Puncture Stress = 45% Slab Bending Stress = 31%	
<b>BASE PLATE</b>			<b>ANCHORS</b>		
OK			OK		
3.1 in X 4.5 in X 0.125 in Steel = 36000 psi MBase = 0 in. lb. Stress = 0%			Ramset/Redhead Trubolt 0.5 Dia. X 2.25 Min. Embd. Pullout Capacity = 580 lbs. Shear Capacity = 1190 lbs. No. Of Anchors = 1 per Base Plate Anchor Stress = 4%		

NOTES: Design based on 2003 IBC for zip code 04103 w/ Fa= 1.5 & Ss= 0.373. Design loading is 2,000#/level for 168"L bays.



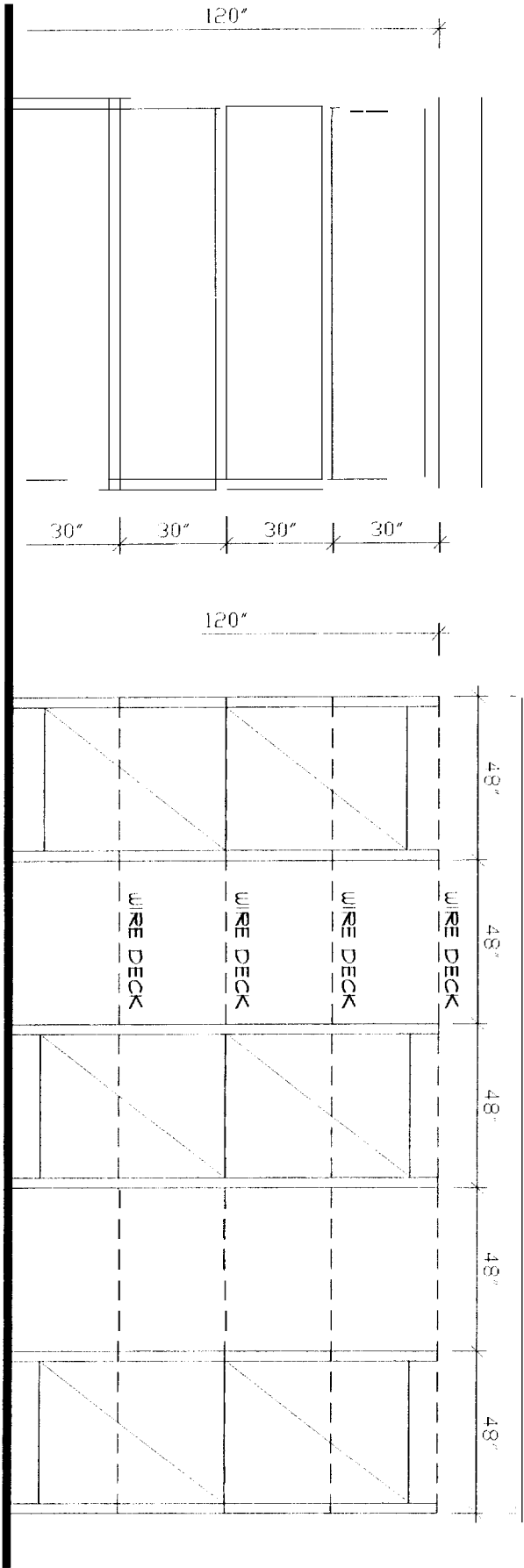
FRONT VIEW  
TYPICAL SOFFIT RACK



SIDE VIEW  
SOFFIT RACK

# RACK ELEVATION 5-B

SCALE : 1/4" = 1'-0"

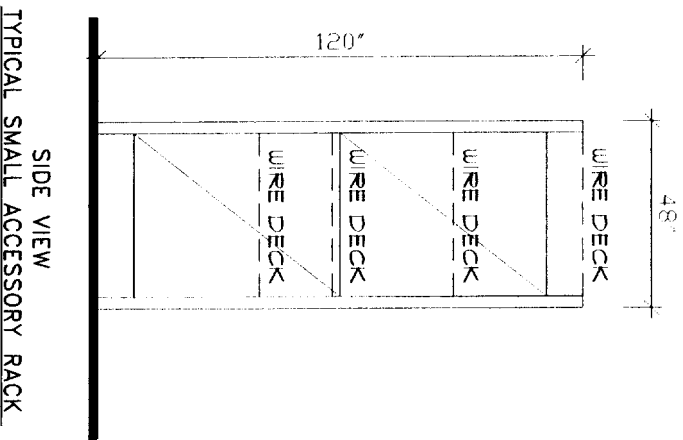
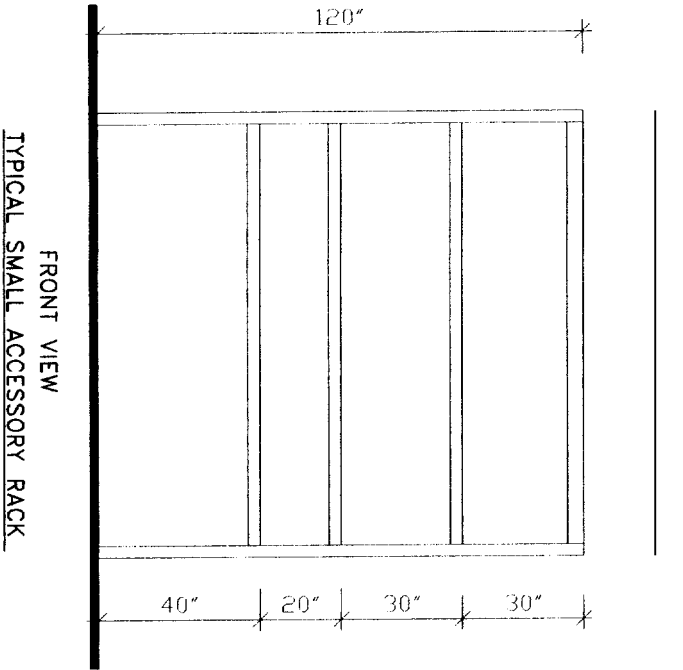


FRONT VIEW  
TYPICAL LINEAL RACK

SIDE VIEW  
LINEAL RACK

# RACK ELEVATION 6

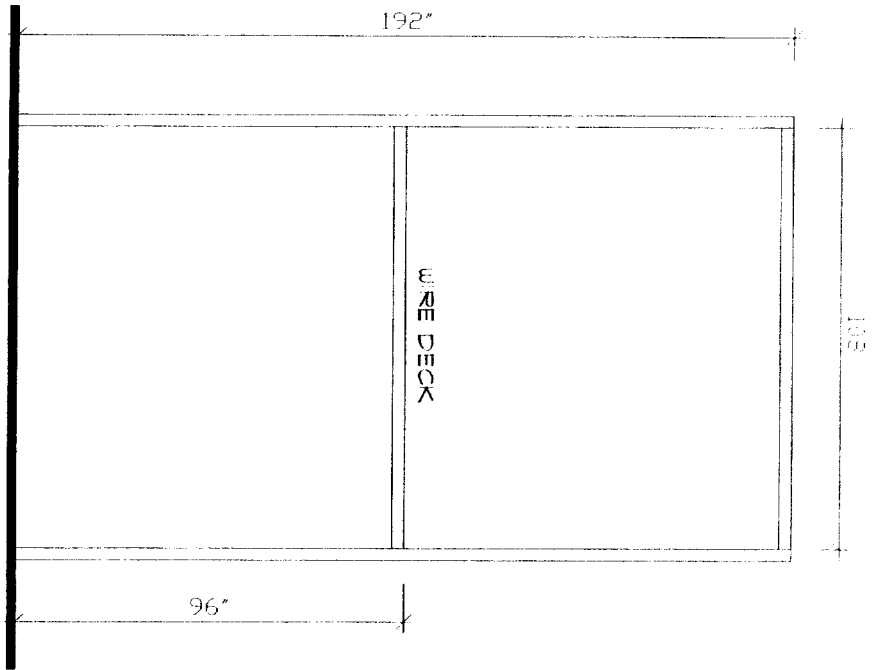
SCALE : 1/4" = 1'-0"



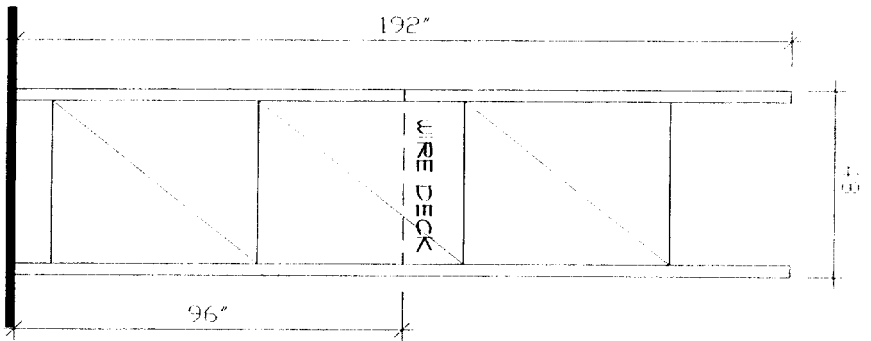
# RACK ELEVATION 8

SCALE : 1/4" = 1'-0"





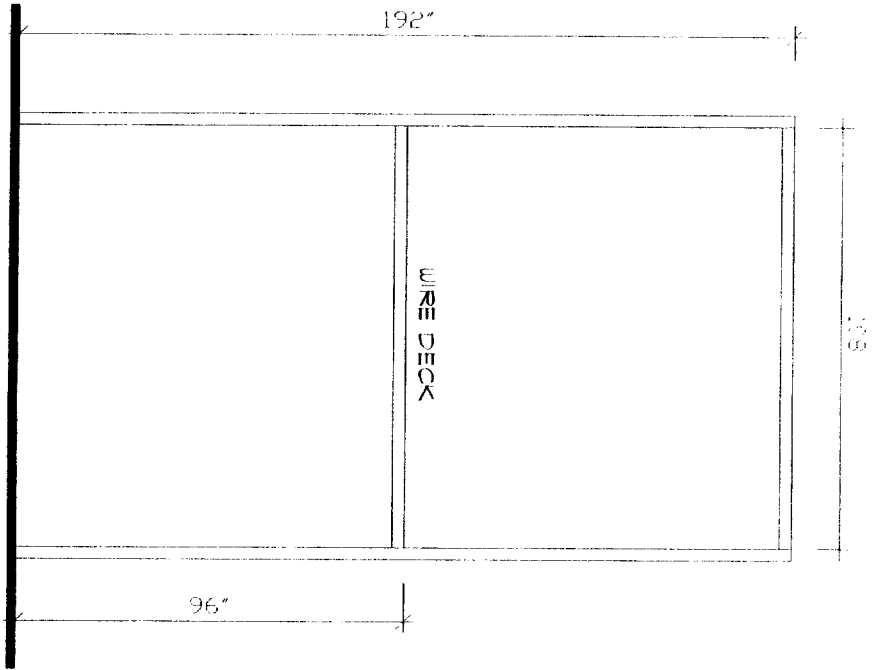
FRONT VIEW  
TYPICAL WINDOW RACKS



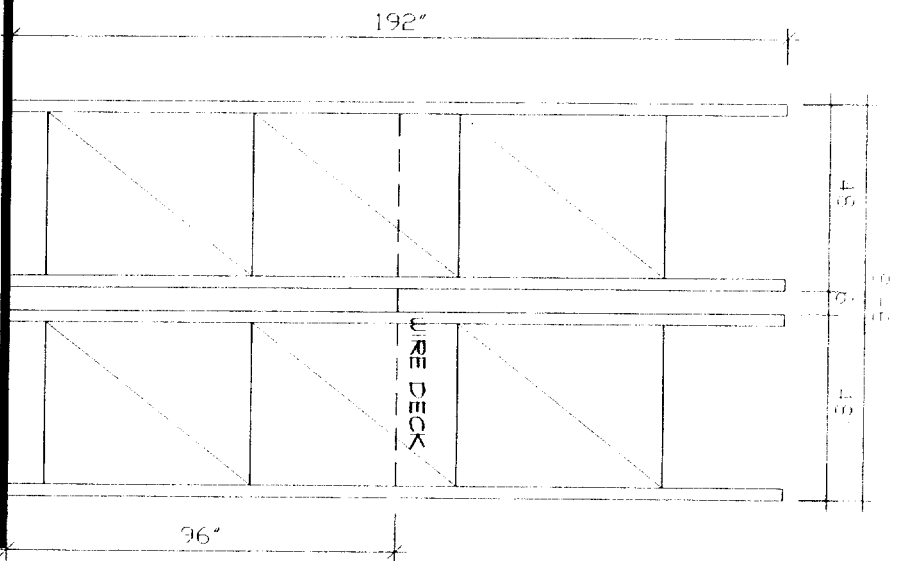
SIDE VIEW  
TYPICAL WINDOW RACKS

# RACK ELEVATION 9-C

SCALE : 1/4" = 1'-0"



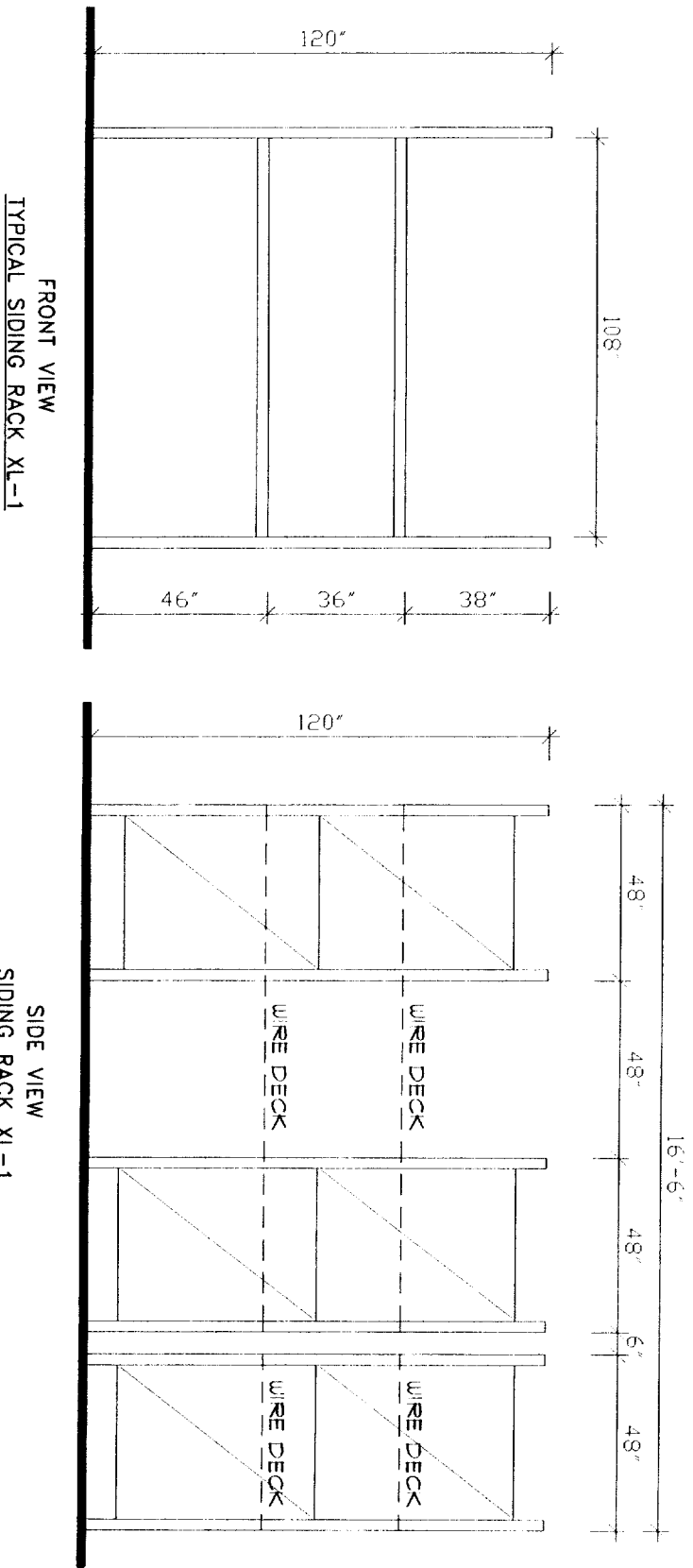
FRONT VIEW  
TYPICAL WINDOW RACKS



SIDE VIEW  
TYPICAL WINDOW RACKS

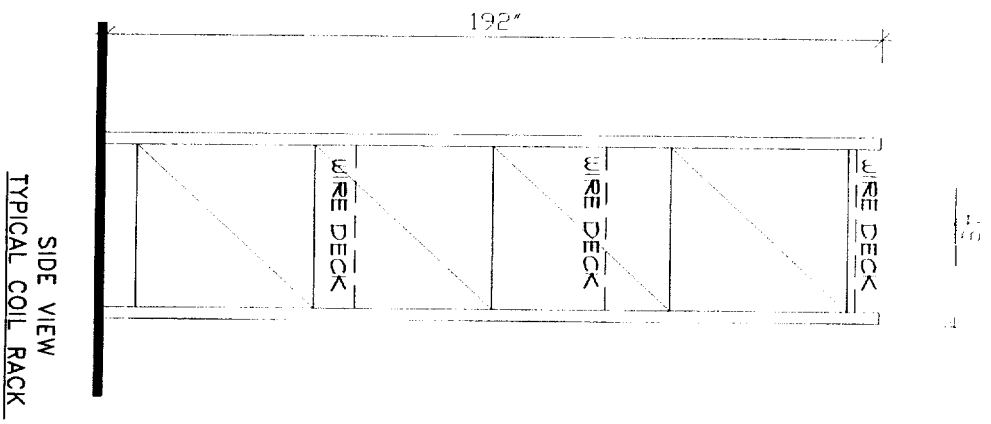
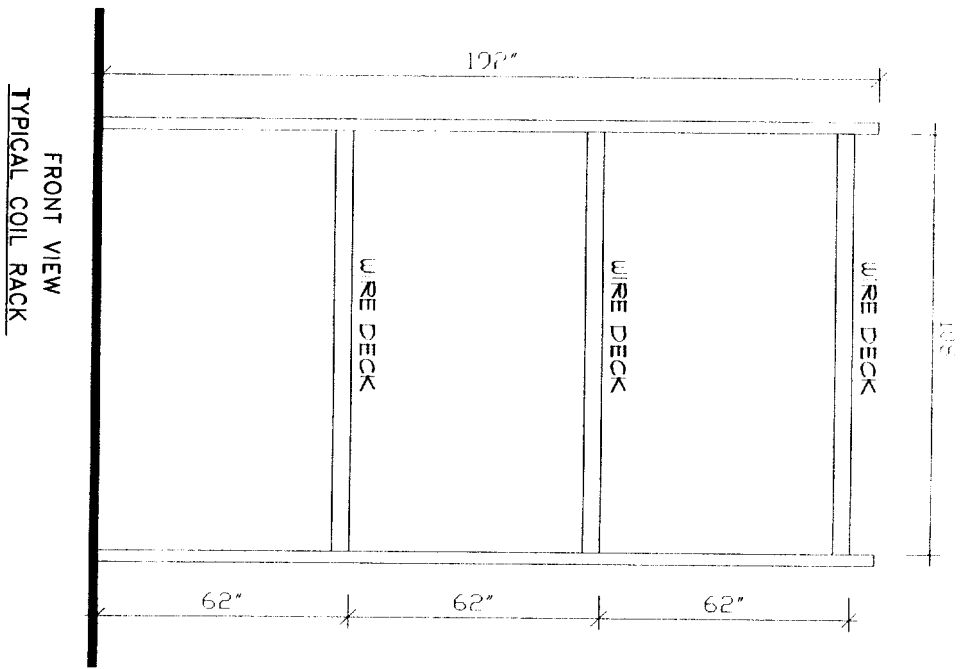
# RACK ELEVATION 9-D

SCALE : 1/4" = 1'-0"



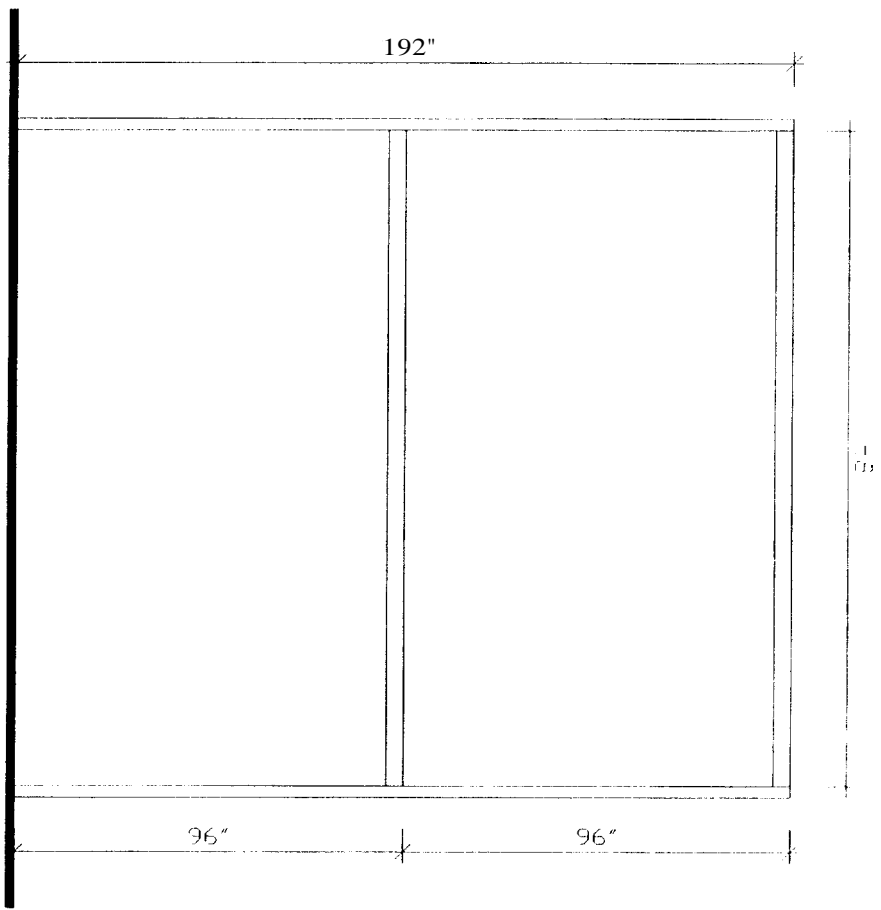
# RACK ELEVATION 10

SCALE : 1/4" = 1'-0"

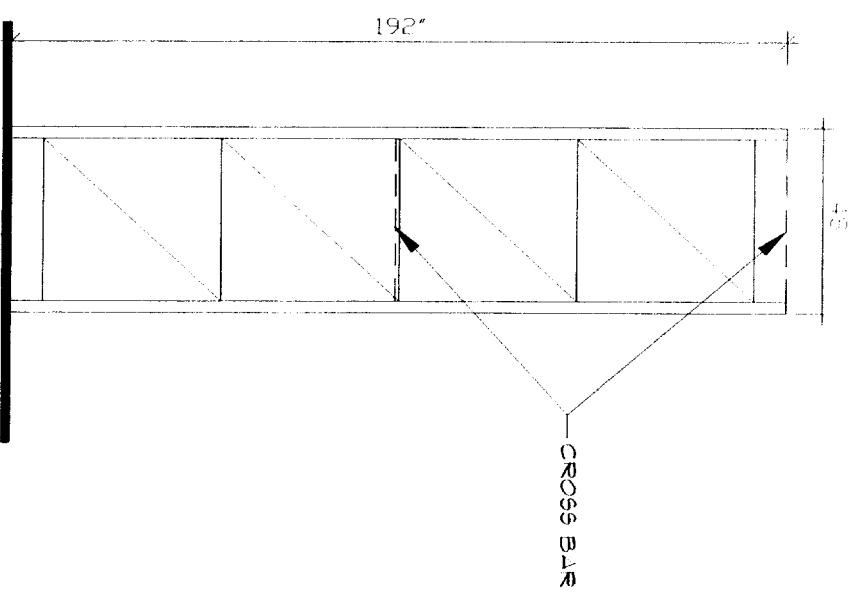


# RACK ELEVATION 26-A

SCALE : 1/4" = 1'-0"



FRONT VIEW  
 TYPICAL WINDOW RACKS

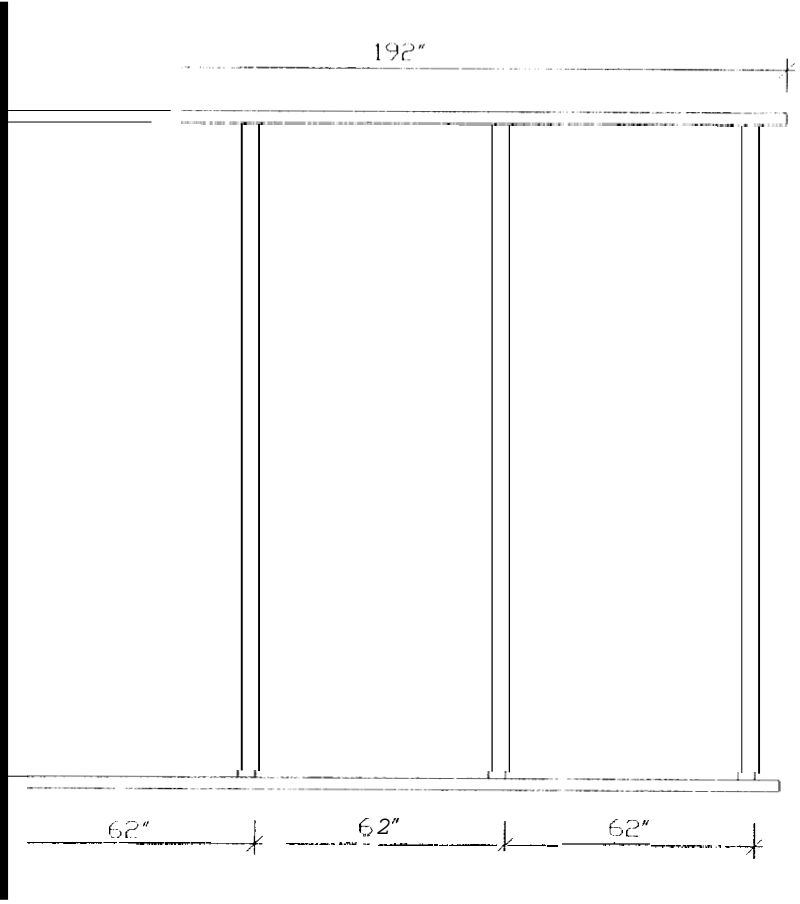


SIDE VIEW  
 TYPICAL WINDOW RACKS

# RACK ELEVATION 28

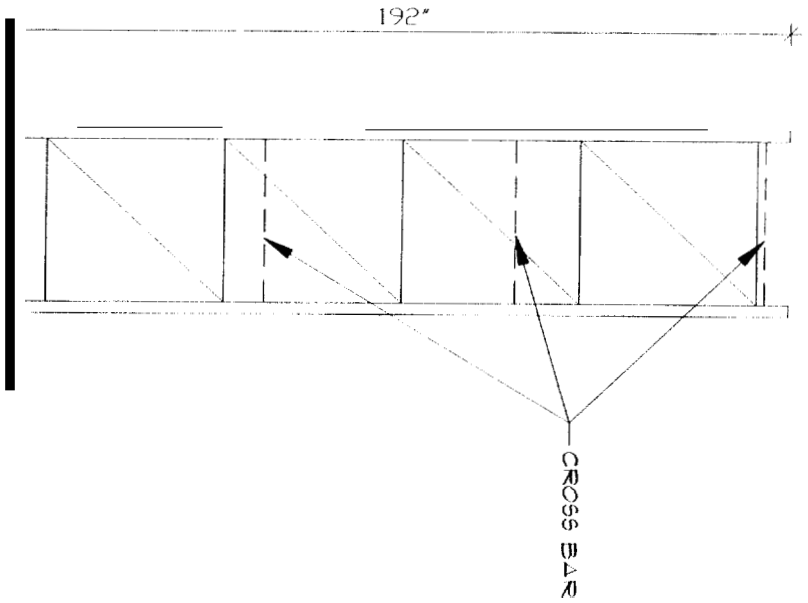
SCALE : 1/4" = 1'-0"

169



FRONT VIEW  
PALLETIZED SIDING RACK PS-1

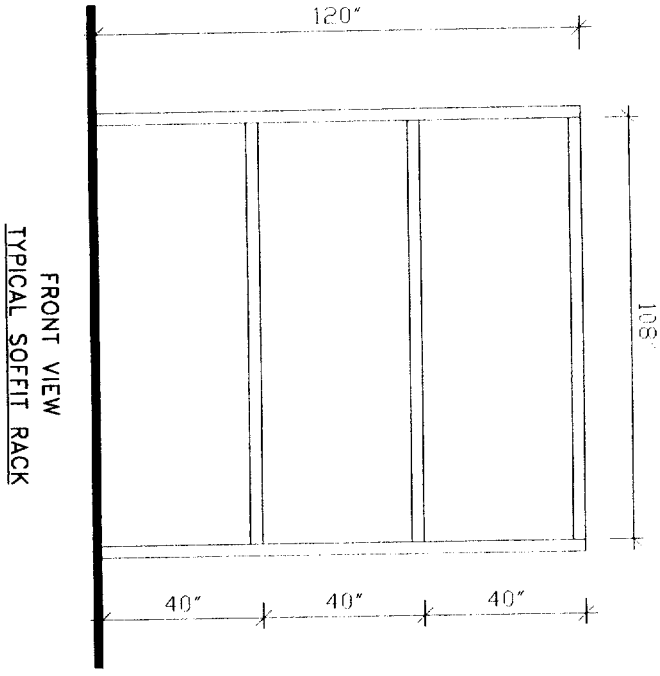
169



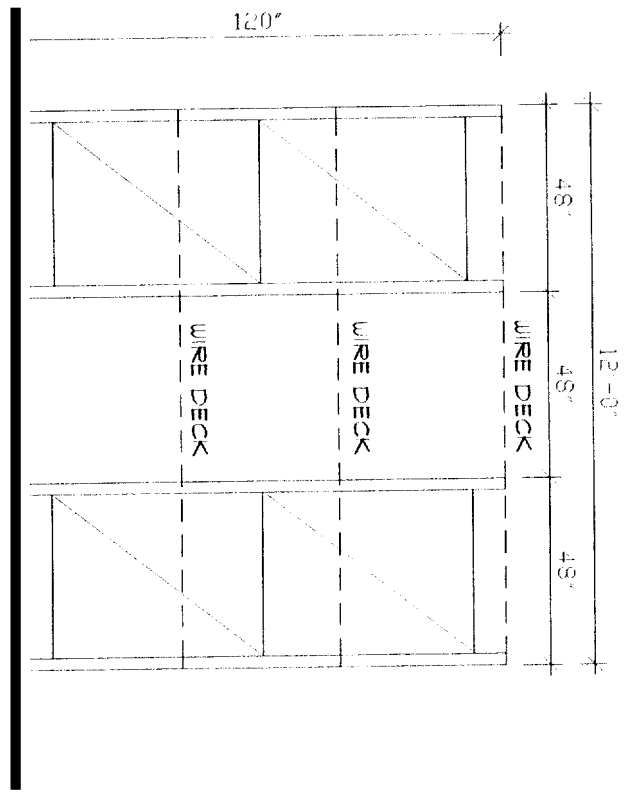
SIDE VIEW  
PALLETIZED SIDING RACK PS-1

# RACK ELEVATION 30

SCALE : 1/4" = 1'-0"



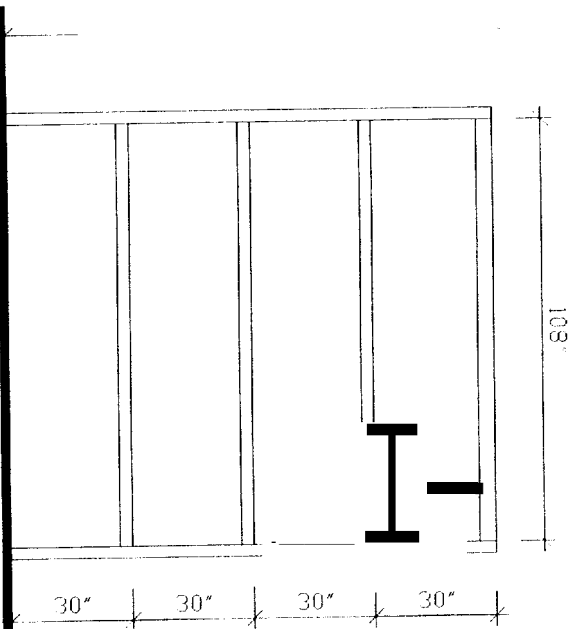
FRONT VIEW  
TYPICAL SOFFIT RACK



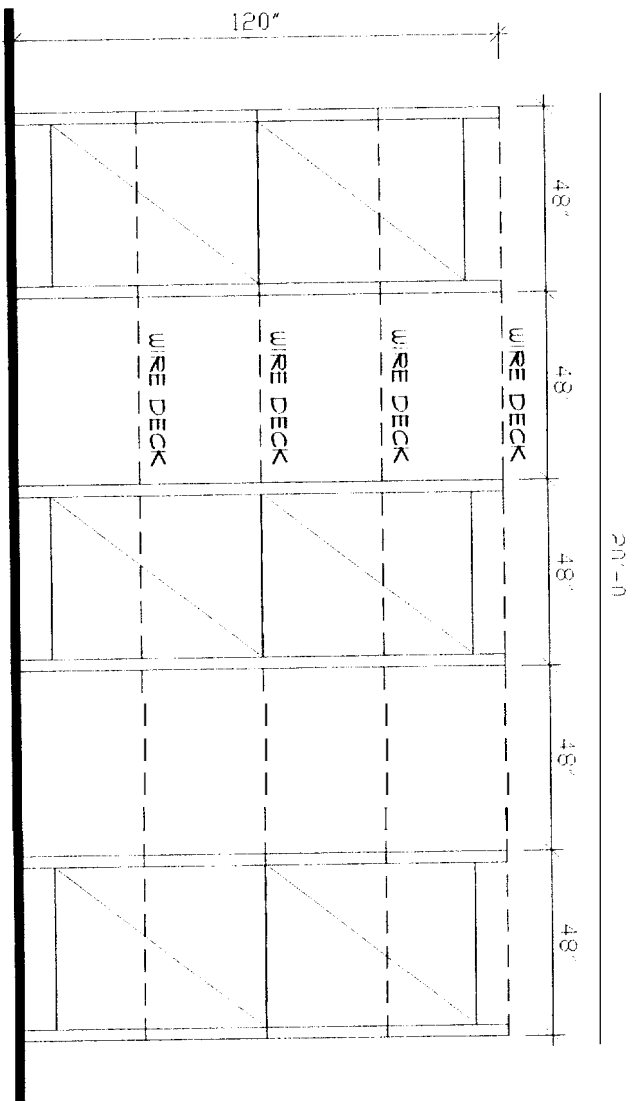
SIDE VIEW  
SOFFIT RACK

# RACK ELEVATION 5-B

SCALE : 1/4" = 1'-0"



FRONT VIEW  
TYPICAL LINEAL RACK

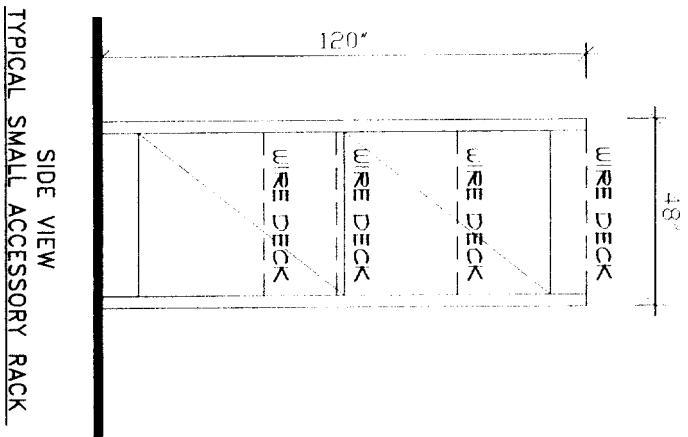
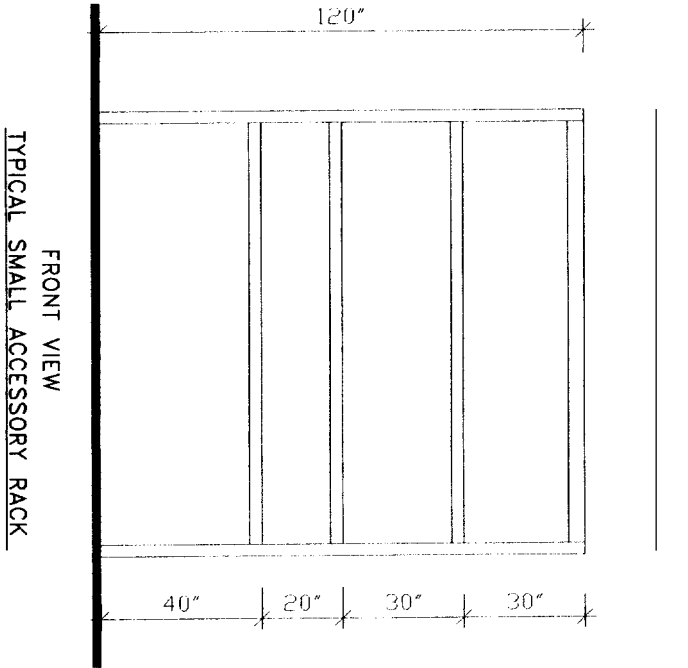


SIDE VIEW  
LINEAL RACK

# RACK ELEVATION 6

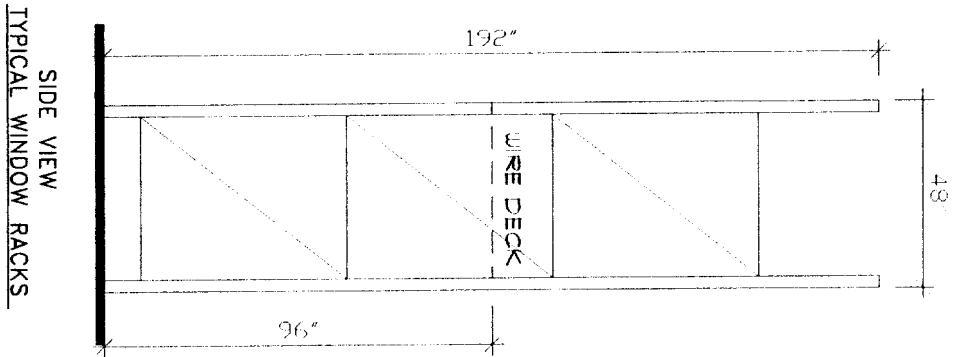
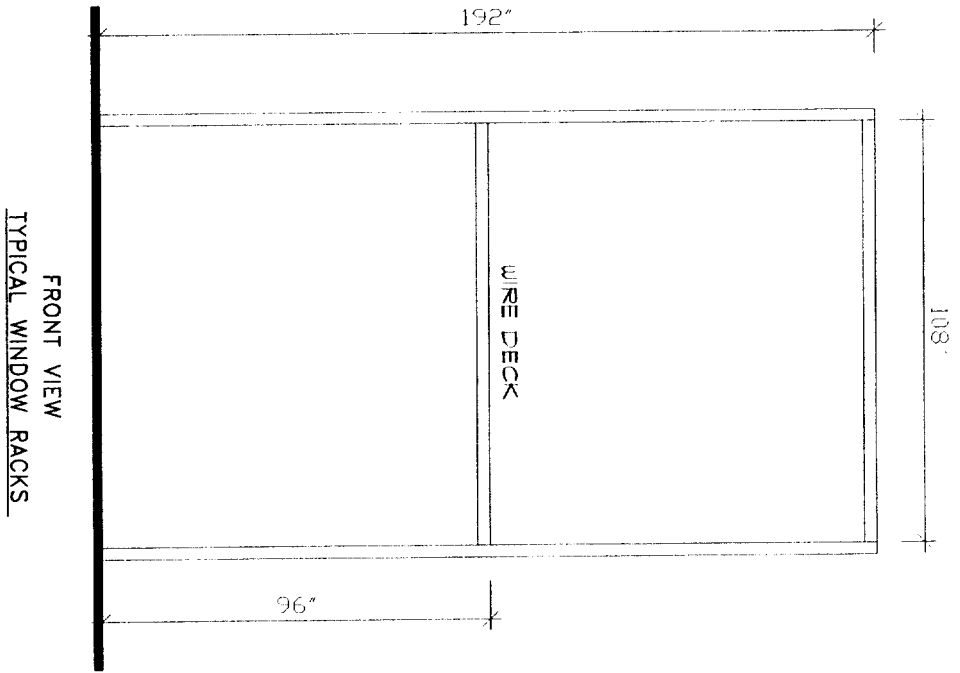
SCALE : 1/4" = 1'-0"





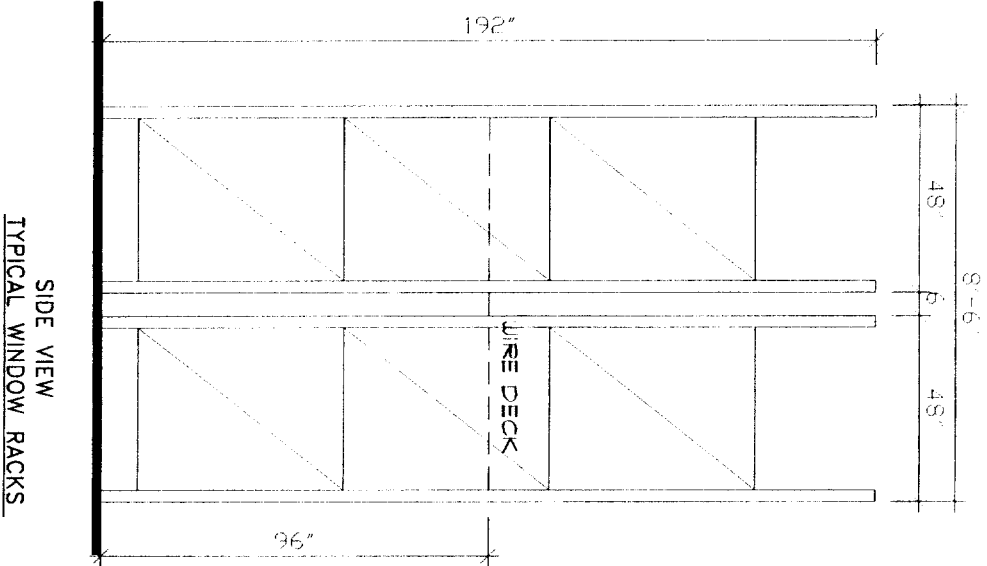
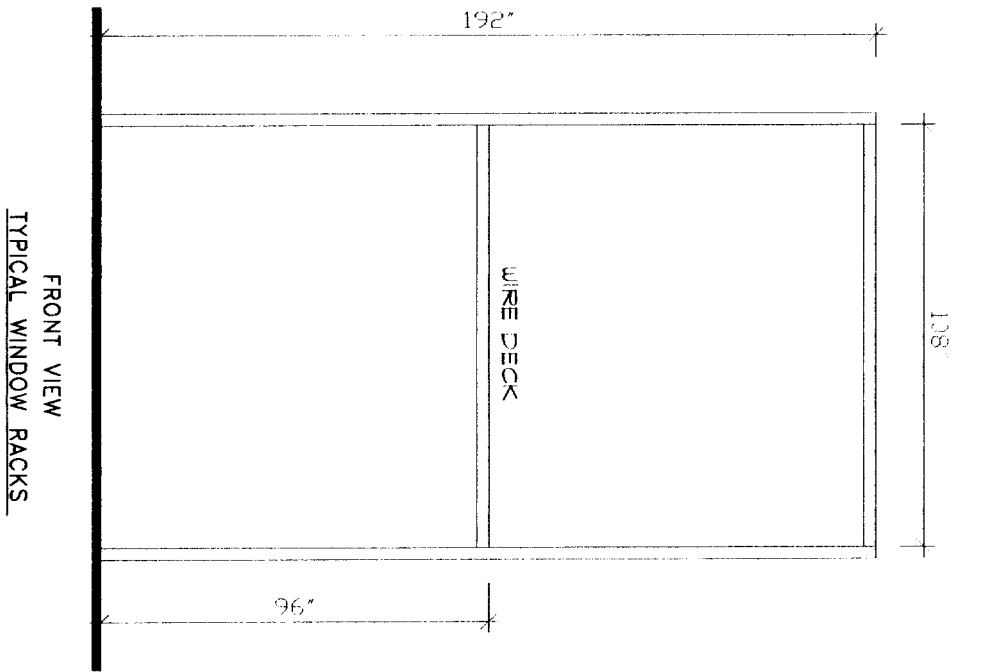
# RACK ELEVATION 8

SCALE : 1/4" = 1'-0"



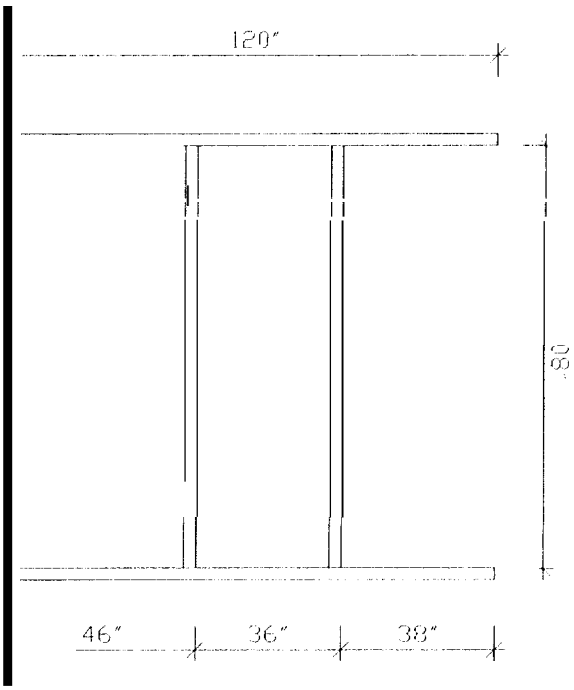
# RACK ELEVATION 9-C

SCALE : 1/4" = 1'-0"

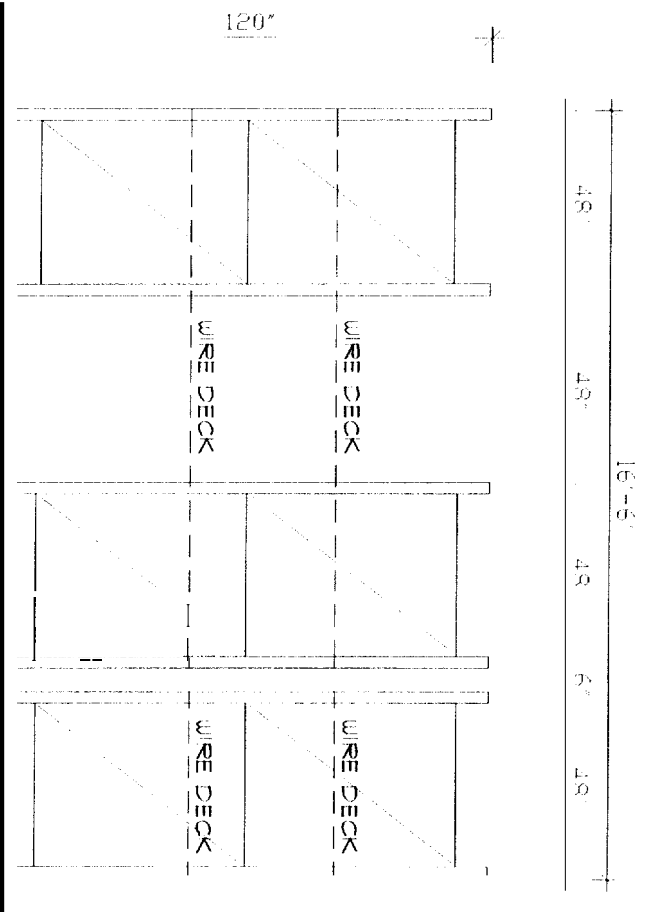


# RACK ELEVATION 9-D

SCALE : 1/4" = 1'-0"



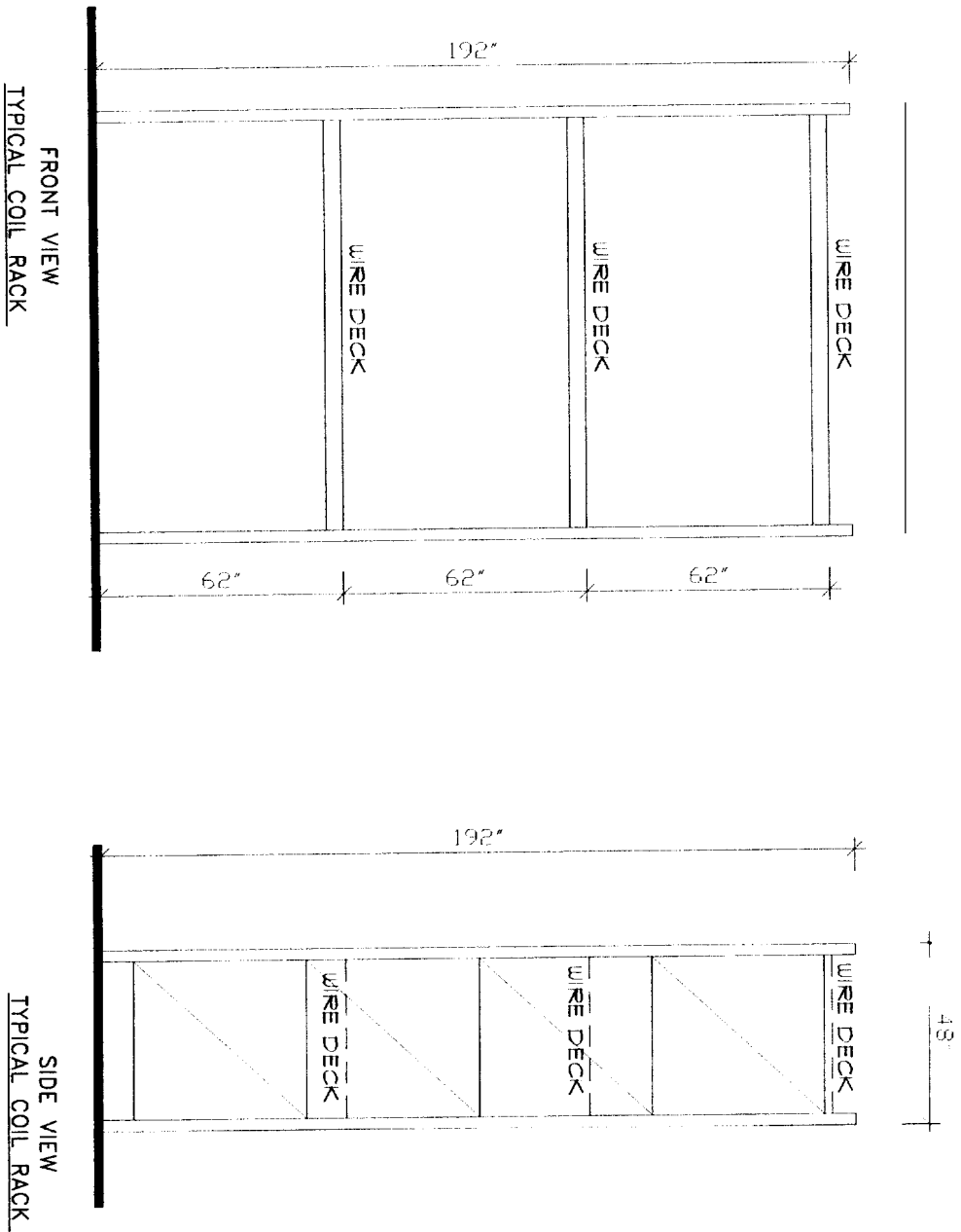
FRONT VIEW  
TYPICAL SIDING RACK XL-1



SIDE VIEW  
SIDING RACK XL-1

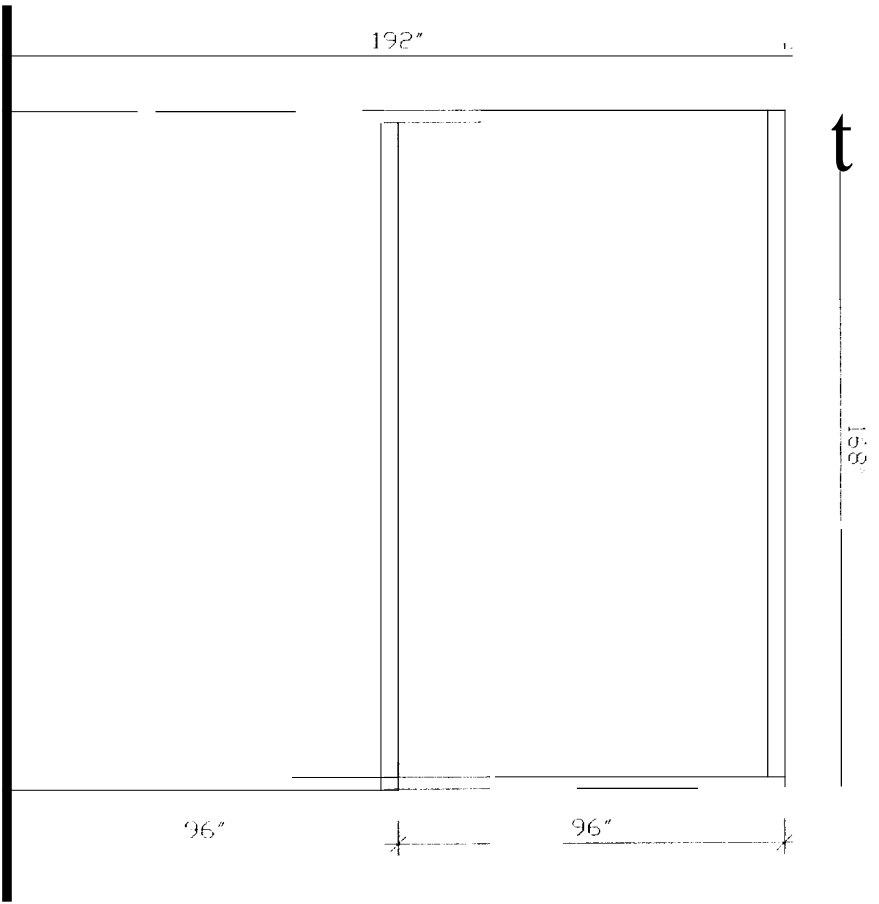
# RACK ELEVATION 10

SCALE : 1/4" = 1'-0"

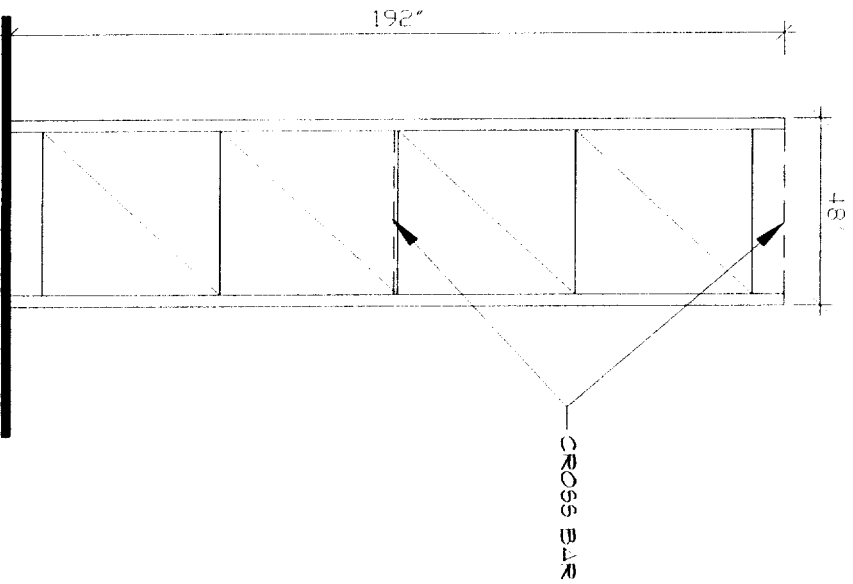


# RACK ELEVATION 26-A

SCALE : 1/4" = 1'-0"



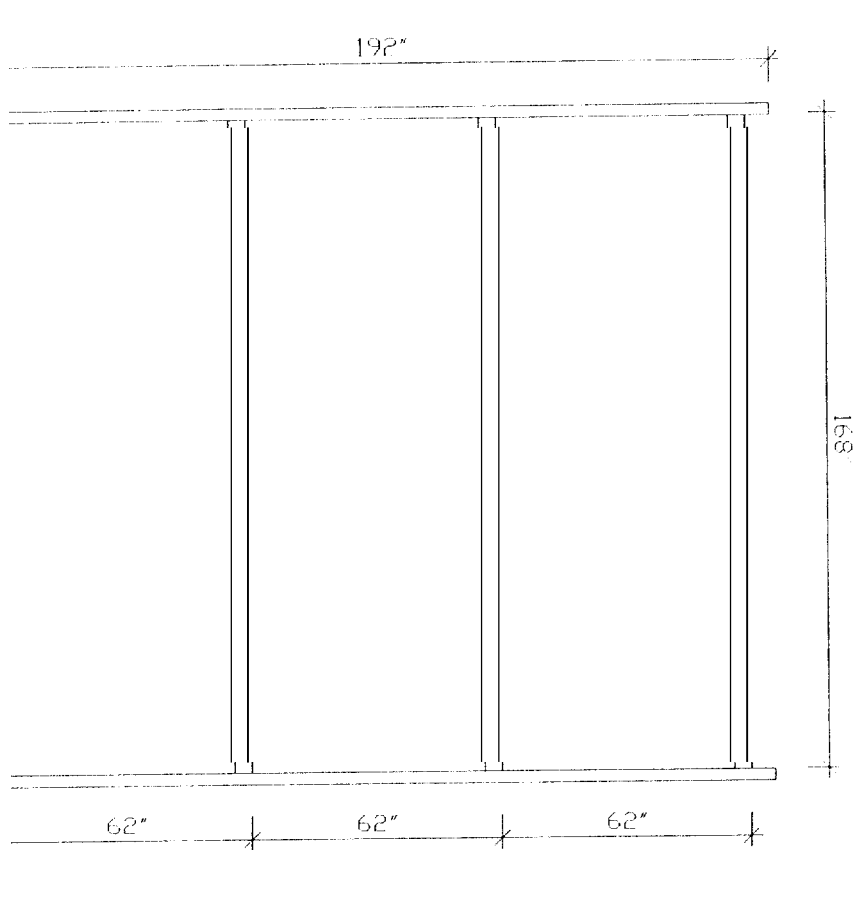
FRONT VIEW  
TYPICAL WINDOW RACKS



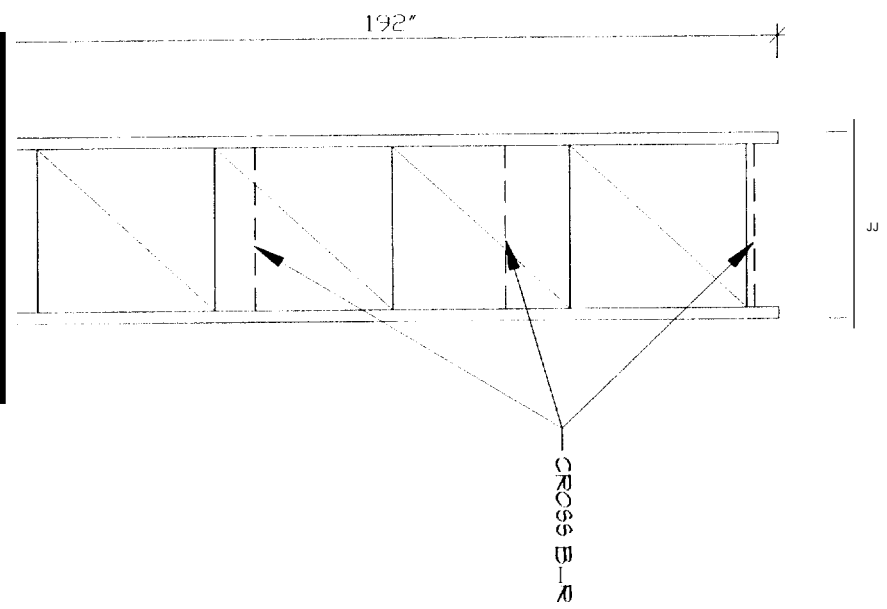
SIDE VIEW  
TYPICAL WINDOW RACKS

# RACK ELEVATION 28

SCALE : 1/4" = 1'-0"



FRONT VIEW  
 PALLETIZED SIDING RACK PS-1



SIDE VIEW  
 PALLETIZED SIDING RACK PS-1

# RACK ELEVATION 30

SCALE : 1/4" = 1'-0"