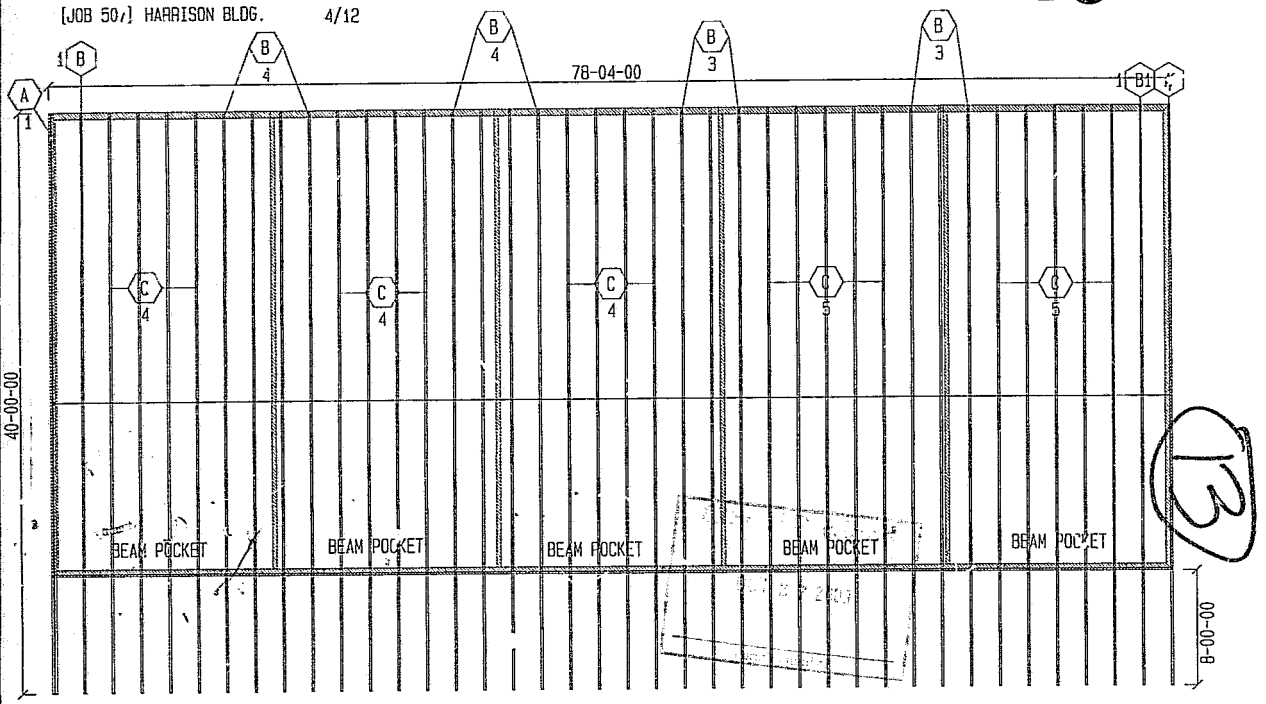
Co.03.149/83 DFS. 01.

B

13

01-149183 DFS01
CO

Scale: 0.1237" Date: 10-01-2003
[JOB 50/] HARRISON BLDG. 4/12



Computrus Inc.

This design prepared from computer input by
Pacific Lumber (SI)

7.0.0**(1L)-2

LUMBER SPECIFICATIONS

SIZE	SPECIE GRADE	PANEL(S)
	TOP CHORDS:	
2x 4	DF ..FI&BTR	
	BOTTOM CHORDS	
2x 4	DF FI&BTR	
	WEBS:	
2x 4	DF STAND	

TC LATERAL SUPPORT <= 12"OC. OCH.
BC LATERAL SUPPORT <= 12"OC. OCH.

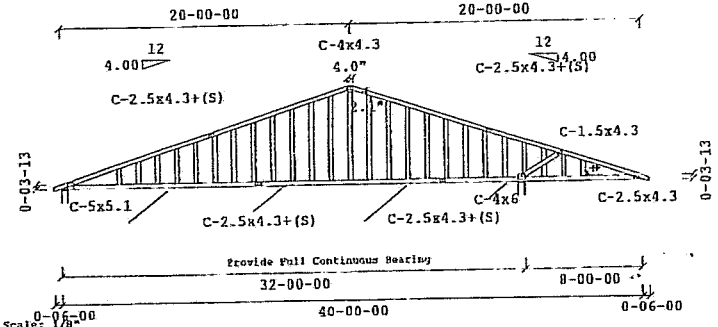
TRUSS SPAN 40'- 0.0"
LOAD DURATION INCREASE = 1.15
SPACED 24.0" O.C.

LOADING

LL(25.0)+DL(7.0) ON TOP CHORD =	32.0	PSF
DL ON BOTTOM CHORD =	10.0	PSF
TOTAL LOAD =	42.0	PSF

Refer to CompuTrus standard gable end detail for complete specifications.

(2)C-1.5x2.6 or equal, typical at uprights.



Scale: 1/8"
JOB NAME: 3312-708 EVERGREEN ROOFING - A

FILE NO.: A

DATE: 10/6/2003

DES. BY: LA

SEQ.: 1407462

WARNINGS:
1. Read all General Notes and Warnings before construction of trusses.
2. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
3. 1x4 compression web bracing must be installed where shown x.
4. All lateral force resisting elements such as temporary and permanent bracing, must be designed and provided by designer of complete structure. Computrus assumes no responsibility for such bracing.
5. No load should be applied to any component until all of all bracing and fasteners are complete, and at no time should any load greater than design loads be applied to any component.
6. Computrus has no control over and assumes no responsibility for the fabrication, handling, shipping and installation of components.
7. This design is furnished subject to the limitations on truss designs set forth by the Truss Plate Institute in "Bracing Wood Trusses, HIB-91", a copy of which will be furnished by Computrus upon request.

General Notes, unless otherwise noted:
1. Design is suggested loads as shown.
2. Design assumes the top and bottom chords to be laterally braced at 2'-0" o.c. and at 12'-0" o.c. respectively.
3. 2x6 flat bracing or lateral bracing required where shown x *
4. Installation of truss is the responsibility of the respective contractor.
5. Design assumes trusses are to be used in a non-corrosive environment, and are for "dry condition" of use.
6. Design assumes full bearing at all supports shown. Shim or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Plate indicate size of plate in inches.
10. For basic design values of the Computrus Plate, indicated by the prefix "C", see ICBO ER# 4211.
11. The Computrus Net Section Plate is indicated by the prefix "CN", the designation (18) indicates 18 ga. material is used, All others are 20 ga

REGISTERED PROFESSIONAL ENGINEER
STATE OF OREGON
OCTOBER 6, 1978
SCOTT R. CARROLL
EXPIRES 12/31/03

NO. 9539 P. 2
OCT. 7. 2003 1:31PM

Computruss Inc.

This design prepared from computer input by Pacific Lumber (SI)

7.0.0**(15)-E

NO. 9539 P. 3

OCT. 7. 2003 1:31PM

LUMBER SPECIFICATIONS

SIZE	SPECIE GRADE	PANEL(S)
	TOP CHORDS:	
2x 4	DF #1&BTR	1-10
	BOTTOM CHORDS:	
2x 4	DF #1&BTR	1- 6
	WEBS:	
2x 4	DF STAND	1-11

TC LATERAL SUPPORT <= 12"OC. UON.
BC LATERAL SUPPORT <= 12"OC. UON.

OVERHANGS:	6.0"	6.0"
Reactions:	1278	2146

TRUSS SPAN 40'- 0.0"
LOAD DURATION INCREASE = 1.15
SPACED 24.0" O.C.

LOADING

LL(25.0)+DL(7.0)	ON TOP CHORD =	32.0 PSF
DL	ON BOTTOM CHORD =	10.0 PSF
	TOTAL LOAD =	42.0 PSF

NOTE:TRUSS DESIGN NON-SYMMETRICAL.
ORIENTATION AS SHOWN.

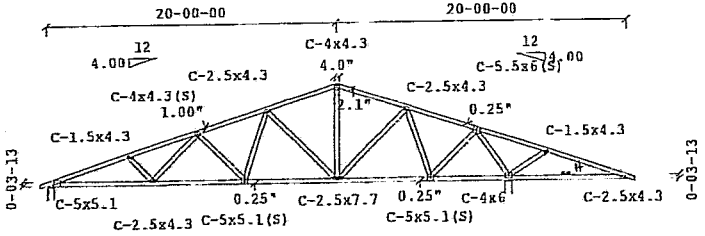
UNC 97/TPI SINGLE MEMBER FORCES 4WRGD

T 1=	0	B 1=	2922	W 1=	-313		
T 2=	-3146	B 2=	2374	W 2=	510		
T 3=	-2914	B 3=	1814	W 3=	-526		
T 4=	-2133	B 4=	998	W 4=	571		
T 5=	-1330	B 5=	36	W 5=	-880		
T 6=	-1330	B 6=	-614	W 6=	556		
T 7=	-868			W 7=	301		
T 8=	1085			W 8=	-741		
T 9=	716			W 9=	1093		
T10=	0			W10=	-1955		
				W11=	-462		

CANT @ 32'- 0.0"
LEFT = 1254 RIGHT = 2106

BEARING AREA REQUIRED (SQ. IN)

BRG @ 0'- 0.0"	2.01 DF /	3.10 HF /	2.95 SPF
BRG @ 32'- 0.0"	3.37 DF /	5.20 HF /	4.96 SPF



Scale: 1/8"
JOB NAME: 3312-708 EVERGREEN ROOFING - B

FILE NO.: B

DATE: 10/6/2003

DES. BY: LA

SEQ.: 1407463

WARNINGS:
1. Read all General Notes and Warnings before construction of trusses.
2. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
3. Tack components with bracing must be furnished where shown.
4. All lateral force resisting elements such as temporary and permanent bracing, must be designed and provided by designer of complete structure. Computruss assumes no responsibility for such bracing.
5. No load should be applied to any component until after all bracing and fastening are complete, and at no time should any loads greater than design loads be applied to any component.
6. Computruss has no control over and assumes no responsibility for the fabrication, handling, shipment and installation of components.
7. This design is furnished subject to the limitations on truss designs set forth by the Truss Plate Institute in "Bracing Wood Trusses, HIB-91", a copy of which will be furnished by Computruss upon request.

General Notes, unless otherwise noted:
1. Design is support loads as shown.
2. Design assumes the top and bottom chords to be laterally braced at 2'-0"O.C. and at 12'-0" o.c. respectively.
3. 2x4 lateral bracing or lateral bracing required where shown.
4. Installation of trusses is the responsibility of the respective contractor.
5. Design assumes trusses are to be used in a non-corrosive environment, and are for "dry conditions" use.
6. Design assumes full bearing at all supports shown. Shim or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Right indicate size of plate in inches.
10. For basic design values of the Computruss Plate, indicated by the prefix "C", see I.C.B.O. R-R. 4211.
11. The Computruss Net Section Plate is indicated by the prefix "CN", the designator (18) indicates 18 ga. material is used. All others are 20 ga.

REGISTERED PROFESSIONAL ENGINEER 1961 OREGON OCTOBER 6, 1978 SCOTT R. CARROLL

EXPIRES 12/31/03

CompuTrus Inc.

This design prepared from computer input by
Pacific Lumber (SI)

7.0.0(1L)-E

NO. 9539 P. 4

LUMBER SPECIFICATIONS

SIZE	SPECIE	GRADE	PANEL(S)
TOP CHORDS:			
2x 4	DF	#1&BTR	1-11
BOTTOM CHORDS:			
2x 4	DF	#1&BTR	1- 6
WEBS:			
2x 4	DF	STAND	1-10, 13-14
2x 4	DF	#1&BTR	11-12

TC LATERAL SUPPORT <= 12"OC. UON.
BC LATERAL SUPPORT <= 12"OC. UON.

OVERHANGS: 6.0" 6.0"
Reactions: 1283 2141

TRUSS SPAN 40'- 0.0"
LOAD DURATION INCREASE = 1.15
SPACED 24.0" O.C.

LOADING
LL(25.0)+DL(7.0) ON TOP CHORD = 32.0 PSF
DL ON BOTTOM CHORD = 10.0 PSF
TOTAL LOAD = 42.0 PSF

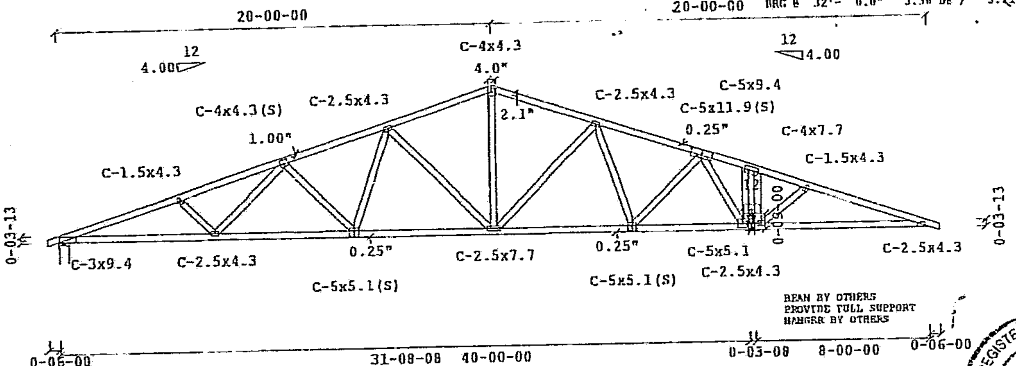
NOTE:TRUSS DESIGN NON-SYMMETRICAL.
ORIENTATION AS SHOWN.

UBC 97/TPI SINGLE MEMBER FORCES 4WRGD

T 1= 0	B 1= 2937	W 1= -313	W13= 428		
T 2= -3161	B 2= 2389	W 2= 509	W14= -396		
T 3= -2929	B 3= 1929	W 3= -576			
T 4= -2150	B 4= 1029	W 4= 572			
T 5= -1345	B 5= 50	W 5= -881			
T 6= -1346	B 6= -655	W 6= 569			
T 7= -902		W 7= 277			
T 8= 819		W 8= -729			
T 9= 1008		W 9= 1123			
T10= 759		W10= -1754			
T11= 0		W11= 1654			
		W12= -144			

CANT @ 32'- 0.0"
LEFT = 1259 RIGHT = 2101

BEARING AREA REQUIRED (SQ. IN)
BRG @ -0'- 0.0" 2.01 DF / 3.11 HF / 2.96 SPF
BRG @ 32'- 0.0" 3.36 DF / 5.19 HF / 4.94 SPF



REGISTERED PROFESSIONAL ENGINEER
OREGON
SCOTT R. CARROLL
EXPIRES 12/31/03

Scale: 3/16"
JOB NAME: 3312-708 EVERGREEN ROOFING - C

FILE NO.: C

DATE: 10/6/2003

DES. BY: LA

SEQ.: 1407464

WARNINGS:
1. Read all General Notes and Warnings before construction of trusses.
2. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
3. 1x3 compression web bracing must be installed where shown +.
4. All lateral force resisting elements such as temporary and permanent bracing, must be designed and provided by designer of complete structure. Compu-trus assumes no responsibility for such bracing.
5. No load should be applied to any component until after all bracing and fasteners are complete, and at no time should any loads greater than design loads be applied to any component.
6. Compu-trus has no control over and assumes no responsibility for the fabrication, handling, shipment and installation of components.
7. This design is furnished subject to the limitations on truss designs set forth by the Truss Plate Institute in "Bracing Wood Trusses, HIB-91", a copy of which will be furnished by Compu-trus upon request.

General Notes, unless otherwise noted:
1. Design to support loads as shown.
2. Design assumes the top and bottom chords to be laterally braced at 2'-0" o.c. and at 12'-0" o.c. respectively.
3. 2x4 impact bridging or lateral bracing required where shown + +
4. Installation of truss is the responsibility of the respective contractor.
5. Design assumes trusses are to be used in a non-corrosive environment, and are for "dry condition" of use.
6. Design assumes full bearing at all supports shown. Shim or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Digits indicate size of plate in inches.
10. For basic design values of the Comp-Trus Plate, indicated by the prefix "C", see I.C.B.O. R.R. 4211.
11. The Compu-trus Net Section Plate is indicated by the prefix "CN", the designator (18) indicates 18 ga. material is used. All others are 20 ga.

OCT. 7. 2003 1:32PM

CompuTrus Inc.

This design prepared from computer input by
Pacific Lumber (SI)

7.0.6**(ILL)-E

LUMBER SPECIFICATIONS

SIZE	SPECIE GRADE	PANEL(S)
	TOP CHORDS:	
2x 4	DF #1&BTR	A
	BOTTOM CHORDS:	
2x 4	DF #1&BTR	B
	WEBS:	
2x 4	DF STAND	UON

TC LATERAL SUPPORT <= 12"OC. UON.
BC LATERAL SUPPORT <= 12"OC UON.

TRUSS SPAN 1'- 10.4"
LOAD DURATION INCREASE = 1.15
SPACED 24.0" O.C.

LOADING

LL(25.0)+DL(7.0) ON TOP CHORD =	32.0 PSF
DL ON BOTTOM CHORD =	10.0 PSF
TOTAL LOAD =	42.0 PSF

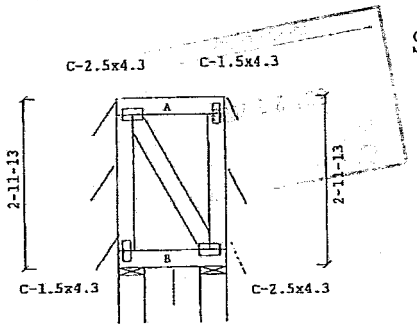
DESIGN ADEQUATE TO RESIST A 150PLF DRAG FORCE. CONTINUOUS SUPPORT REQUIRED FOR THREE SURFACES SHOWN.

ALL CONNECTIONS & ATTACHMENTS OF COMPONENTS TO FORM THE STRUCTURAL SYSTEM FOR IMPOSED SEISMIC LOADING IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD.

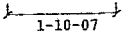
LATERAL BRACING REQUIRED IF CONTINUOUS SUPPORT IS NOT PROVIDED.

NOTE: ATTACHMENTS AS STATED ABOVE MUST ACCOUNT FOR AN INDIVIDUAL COMPONENT SEISMIC OVERTURNING MOMENT OF 750FT-LBS.

SHEAR PANEL



CONTINUOUS SUPPORT TYPICAL



Scale: 1/2"
JOB NAME: J312-708 EVERGREEN ROOFING - D

FILE NO.: D

DATE: 10/6/2003

DES. BY: LA

SEQ.: 1407465

WARNING:
1. Read all General Notes and Warnings before construction of trusses.
2. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
3. T&B compression web bracing must be installed at spacing shown *.
4. All lateral force resisting elements such as temporary and permanent bracing, must be designed and provided by designer of complete structure. Computrus assumes no responsibility for such bracing.
5. No loads should be applied to any component until all bracing and fasteners are complete, and at no time should any loads greater than design loads be applied to any component.
6. Computrus has no control over and assumes no responsibility for the fabrication, handling, shipment and installation of components.
7. This design is furnished subject to the limitations on truss design set forth by the Truss Plate Institute in "Design Wood Trusses, HIB-91", a copy of which will be furnished by Computrus upon request.

General Notes, unless otherwise noted:
1. Design is supported loads as shown.
2. Design assumes the top and bottom chords to be laterally braced at 2'-0" o.c. and at 12'-0" o.c. respectively.
3. 2x4 lateral bridging or lateral bracing (one *s where shown *).
4. Installation of truss is the responsibility of the respective contractor
5. Design assumes trusses are to be used in a non -corrosive environment, and are for "dry condition" of use.
6. Design assumes for bearing at all supports allows .5in or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Digits indicate size of plate in inches.
10. For basic design values of the Computrus Plate, indicated by the prefix "C", see I.C.B.O. R.R. 4211.
11. The Computrus Tet Section Plate is indicated by the prefix "CT", the designator (16) indicates 16 ga. material is used. All others are 20 ga.

REGISTERED PROFESSIONAL ENGINEER
9961
OREGON
OCTOBER 6, 1978
SCOTT R. CARROLL
EXPIRES 12/31/03

OCT. 7. 2003 1:22PM NO. 9539 P. 5

CompuTrus Inc.

This design prepared from computer input by
Pacific Lumber (St)

7.0.0** (16)-E

LUMBER SPECIFICATIONS

SIZE	SPECIE	GRADE	PANEL(S)
TOP CHORDS:			
2x 4	DF	#1&BTR	A
BOTTOM CHORDS:			
2x 4	DF	#1&BTR	B
WEBS:			
2x 4	DF	STAND	UON

TC LATERAL SUPPORT <= 12"OC. UON.
BC LATERAL SUPPORT <= 12"OC. UON.

TRUSS SPAN 1'- 10.6"
LOAD DURATION INCREASE = 1.15
SPACED 24.0" O.C.

LOADING

LL(25.0)+DL(7.0) ON TOP CHORD = 32.0 PSF
DL ON BOTTOM CHORD = 10.0 PSF
TOTAL LOAD = 42.0 PSF

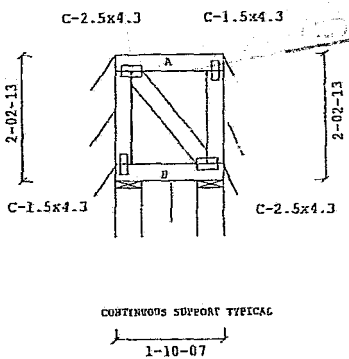
DESIGN ADEQUATE TO RESIST A 150PLF DRAG FORCE.
CONTINUOUS SUPPORT REQUIRED FOR THREE SURFACES SHOWN.

ALL CONNECTIONS & ATTACHMENTS OF COMPONENTS TO FORM THE STRUCTURAL SYSTEM FOR IMPOSED SEISMIC LOADING IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD.

LATERAL BRACING REQUIRED IF CONTINUOUS SUPPORT IS NOT PROVIDED.

NOTE: ATTACHMENTS AS STATED ABOVE MUST ACCOUNT FOR AN INDIVIDUAL COMPONENT SEISMIC OVERTURNING MOMENT OF 627FT-LBS.

SHEAR PANEL



Scale: 1/2"
JOB NAME: 3312-708 EVERGREEN ROOFING - E

FILE NO.: E

DATE: 10/6/2003

DES. BY: LA

SEQ.: 1407466

WARNINGS:

1. Read all General Notes and Warnings before construction of trusses.
2. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
3. 1x3 compression web bracing must be installed where shown +.
4. All lateral force resisting elements such as temporary and permanent bracing, must be designed and provided by designer of complete structure. CompuTrus assumes no responsibility for such bracing.
5. No load should be applied to any component until after all bracing and fasteners are complete, and at no time should any loads greater than design loads be applied to any component.
6. CompuTrus has no control over and assumes no responsibility for the fabrication, handling, shipment and installation of components.
7. This design is furnished subject to the limitations on truss designs set forth by the Truss Plate Institute in "Bracing Wood Trusses, HIB-91", a copy of which will be furnished by CompuTrus upon request.

General Notes, unless otherwise noted:

1. Design to support loads as shown.
2. Design assumes the top and bottom chords to be laterally braced at 2'-0" o.c. and at 12'-0" o.c. respectively.
3. 2x4 impact bridging or lateral bracing required where shown + +
4. Installation of truss is the responsibility of the respective contractor.
5. Design assumes trusses are to be used in a non-corrosive environment, and are for "dry condition" of use.
6. Design assumes full bearing at all supports shown. Shim or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Digits indicate size of plate in inches.
10. For basic design values of the CompuTrus Plate, indicated by the prefix "C", see I.C.B.O. R.R. 4211.
11. The CompuTrus Net Section Plate is indicated by the prefix "CN", the designator (18) indicates 18 ga. material is used. All others are 20 ga.

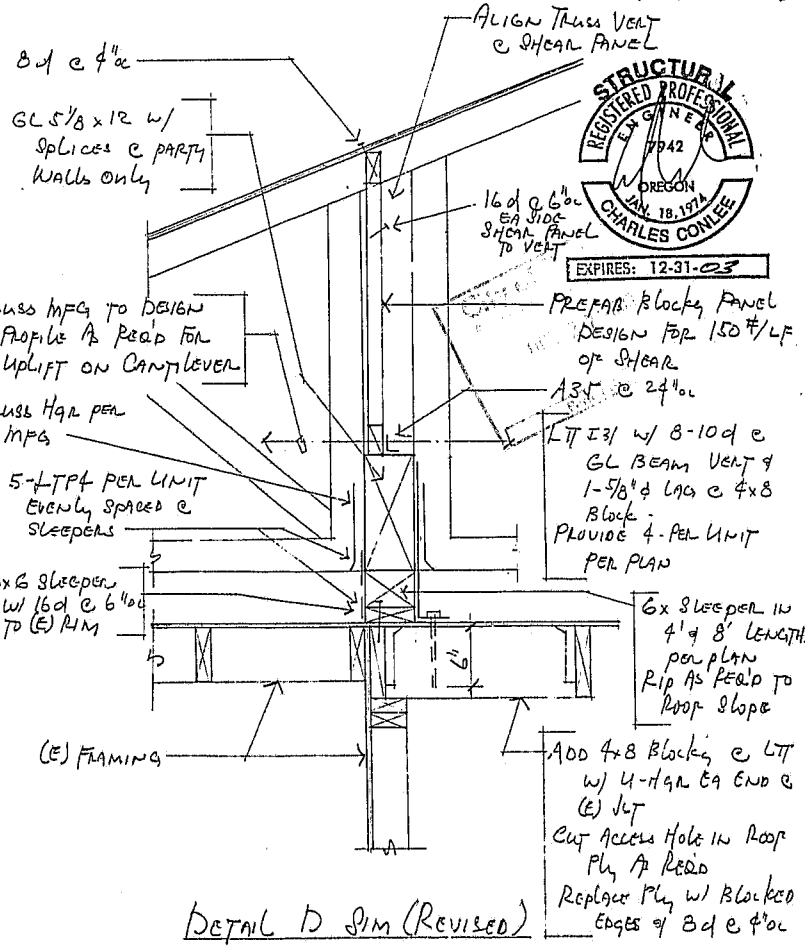
REGISTERED PROFESSIONAL ENGINEER
9961
OREGON
OCTOBER 6, 1978
SCOTT R CARROLL
EXPIRES 12/31/03

CONLEE
ENGINEERS INC.

Client: Bilco
Project: Harrison Bldg
Subject: Detail D Sim (Revised)

Sheet: SD-1
Date: 7-22-03
By: bg

Rev. 10-20-03



STRUCTURAL
REGISTERED PROFESSIONAL ENGINEER
7942
OREGON
JAN. 18, 1974
CHARLES CONLEE
EXPIRES: 12-31-03

Detail D Sim (Revised)

* Note:
This Detail to Replace Sim D
Detail on Harrison Reroof Dwg 10
As Prepared By Craig Monaghan 9/3/02

CONLEE ENGINEERS INC.

Client GILCO
Project HARRISON BLDG
Subject BEAM CALC.

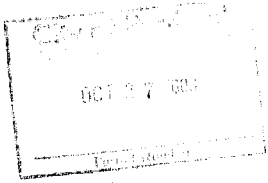
Sheet
Date 10-20-03
By DG

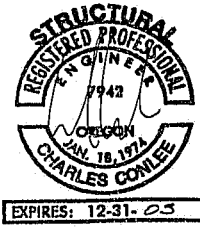
DSIGN ROOF BEAM

$W = .035(40)20 \div 31 = .9^{K}/_{L}$

$M = .9(15)^2/8 = 25.6\,(12)/2.4(1.15) = 110$

$I = 5(.9)15^4 12^3 / 384 \cdot 29{,}240 = 709$ $\quad 5^{1}/_{8} \times 12$.





EXPIRES: 12-31-03