

1156 SW 57TH AVE.

REV-01-RS06-107415

RS.06.107415 REV.01.

M

OCT 27 2006  
MICROFILMED

40



CITY OF  
**PORTLAND, OREGON**  
BUREAU OF DEVELOPMENT SERVICES  
1900 SW 4th Ave., Suite 5000  
Portland, OR 97201



**RESIDENTIAL 1 & 2 FAMILY PERMIT**

06-107415-REV-01-RS

Site Address: 1156 SW 57TH AVE

Issued: 10/4/06

|                                                                                                                                                 |                  |                      |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------|-------------|
| <b>PROJECT INFORMATION</b>                                                                                                                      |                  | Occ. Group           | Const. Type |
| Single Family Dwelling                                                                                                                          | New Construction | R3                   | V-N         |
| Project Description: REVISION, STICK FRAME ROOF TO TRUSSES, DELETE AND ADD WINDOWS, SIDES AND REAR, NEW ENGINEERING FOR FOOTING, DELETE DORMERS |                  |                      |             |
| <b>APPLICANT</b>                                                                                                                                |                  | Phone (503) 314-3384 |             |
| <b>PROPERTY OWNER</b>                                                                                                                           |                  | Phone                |             |
| <b>CONTRACTOR</b>                                                                                                                               |                  | Phone                |             |

| Project Details            |                       | Project Details             |                     |
|----------------------------|-----------------------|-----------------------------|---------------------|
| Code Edition               | IRC - 2003            | GIS Update Flag             | 02/06/06            |
| Number of Stories          | 2                     | On-Site Stormwater Facility | Flow-through plants |
| Sprinkler System Required? | Yes                   | Valuation at Issuance       | 282149              |
| Water District             | Portland Water Bureau | Zoning Enforcement Agency   | Portland            |

**PAID**  
OCT 4 2006  
CITY OF PORTLAND

This permit expires if, at any time, 180 days pass without an approved inspection. If you are not able to obtain an inspection approval within 180 days, you may request a one-time only extension of 180 days by calling 503-823-7388.

|                                         |                                                                                                                                                                                                                                                                                                                                    |                                                                  |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>BEFORE YOU DIG</b>                   | ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0900. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is 1-800-332-2344). |                                                                  |
| <b>CITY CONTACT</b>                     |                                                                                                                                                                                                                                                                                                                                    | Phone:                                                           |
| E-Mail:                                 |                                                                                                                                                                                                                                                                                                                                    | Fax: (503) 823-4172                                              |
| <b>INSPECTION REQUEST PHONE NUMBERS</b> |                                                                                                                                                                                                                                                                                                                                    | Building/Trade Inspections - Call Before 6:00 AM: (503) 823-7000 |
| TDD: (503) 823-6868                     |                                                                                                                                                                                                                                                                                                                                    |                                                                  |
| <b>IVR Inspection Request Number:</b>   |                                                                                                                                                                                                                                                                                                                                    | 2546577                                                          |

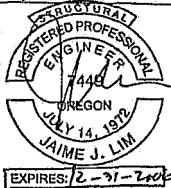
# UNITED ENGINEERING, INC.

Consulting Engineering \* Civil \* Structural \* Environmental Engineering \* Planning

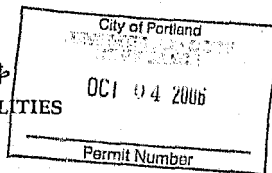
922 N. Killingsworth St. - Suite: 1A  
Portland, OR 97217  
USA

Telephone : (503) 289-7775  
Fax : (503) 283-4445  
Email : jaimelim@asianreporter.com

Project Name Goodell Residence  
Project Address 1148 SW 57th Avenue, Lot 2  
Project Location Portland, Oregon  
Project Code Keyway Construction



## EXCLUSION OF LIABILITIES



### I. DISCLAIMER AND RELEASE

Buyer hereby waives, releases and renounces all warranties (express or implied), obligations and liabilities of United Engineering, Inc. and all other rights and claims and all other remedies against United Engineering, Inc. with respect to any nonconformity, improper installation, workmanship or material.

### II. EXCLUSION OF CONSEQUENTIAL AND OTHER DAMAGES

United Engineering, Inc. shall have no obligation of liability, whether arising in contract (including warranty), Tort (including active, passive, or imputed negligence) or otherwise, for loss or use, revenue or profit, or for any other incidental or consequential damage.

Date: August 19, 2006

Lateral Load Analysis

06-107415-REV-1-RS

# UNITED ENGINEERING, INC.

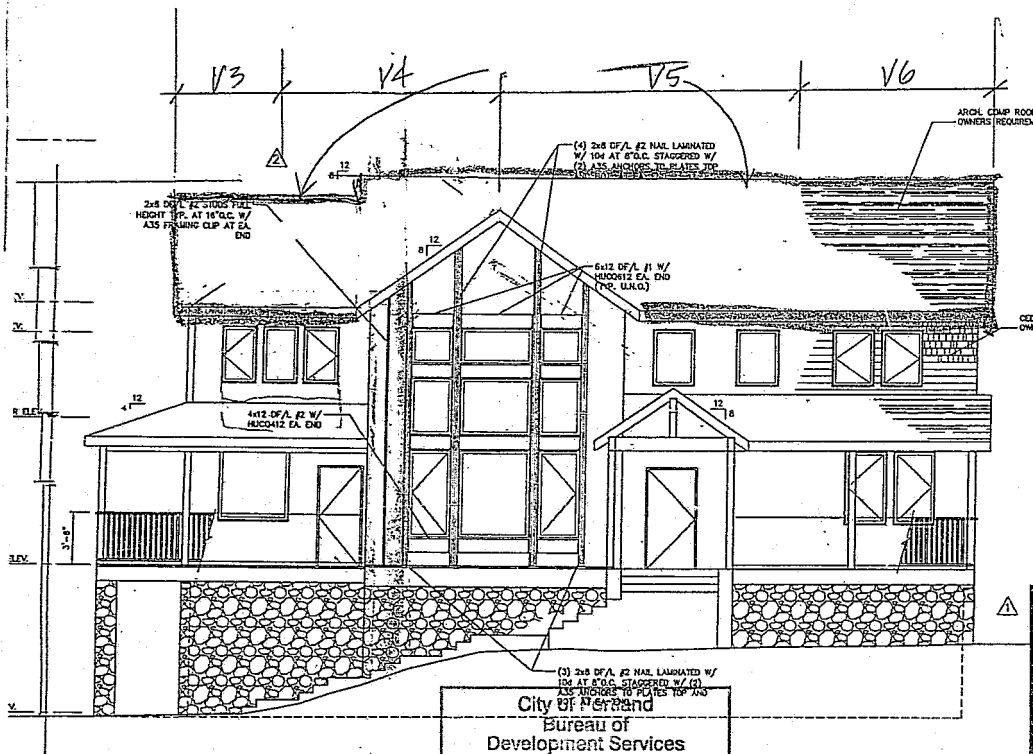
Consulting Engineering \* Civil \* Structural \* Environmental Engineering \* Planning

922 N. Killingsworth St. - Suite 1A

Portland, OR 97217 USA

Email: jameelin@uengineering.com

Telephone: (503) 289-7775  
Fax: (503) 283-4445



1 SOUTH ELEVATION

City of Portland

Bureau of  
Development Services

By R. McInerney Date 10/4/02

Approved by  
Planning and Zoning Review



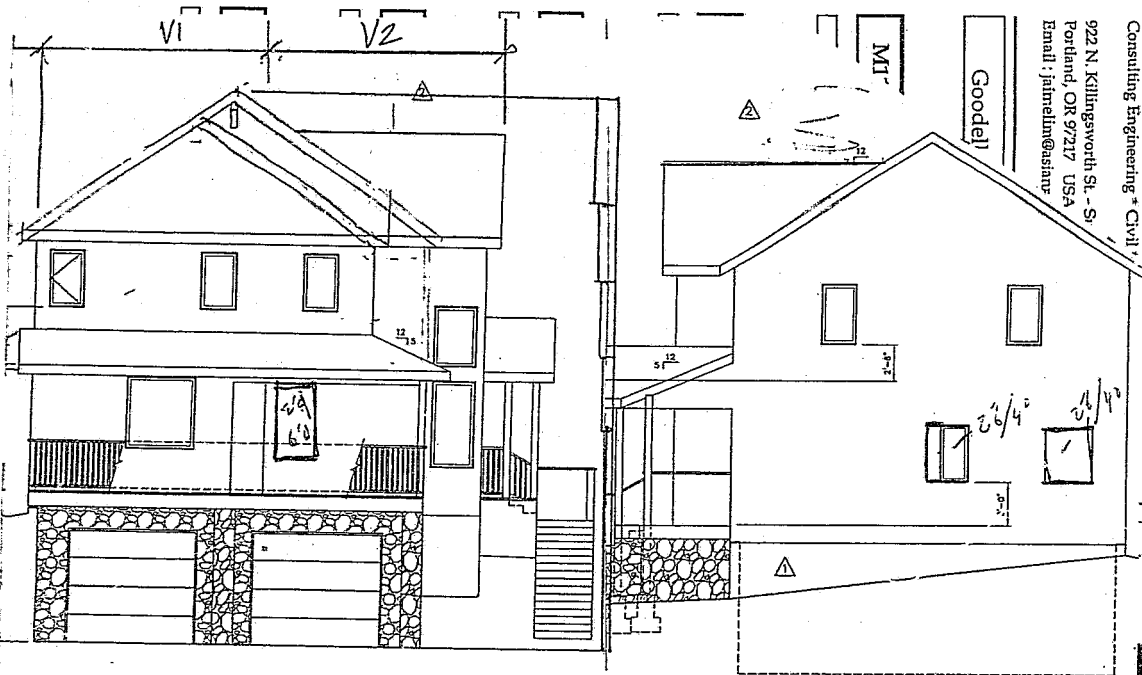
# UNITED ENGINEERING, INC.

Consulting Engineering \* Civil \*

922 N. Killingsworth St. - S  
Portland, OR 97217 USA  
Email: jalmelun@easat.net

Goodell

Mt.



ELEVATION

1/4" = 1'-0"

ELEVATION

y Construction

uggested: ###

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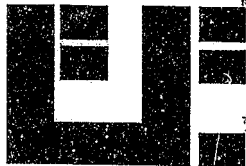
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# UNITED ENGINEERING, INC.

Consulting Engineering \* Civil \* Structural \* Environmental Engineering \* Planning

922 N. Killingsworth St. - Suite: 1A  
Portland, OR 97217 USA  
Email : jaimelim@asianreporter.com

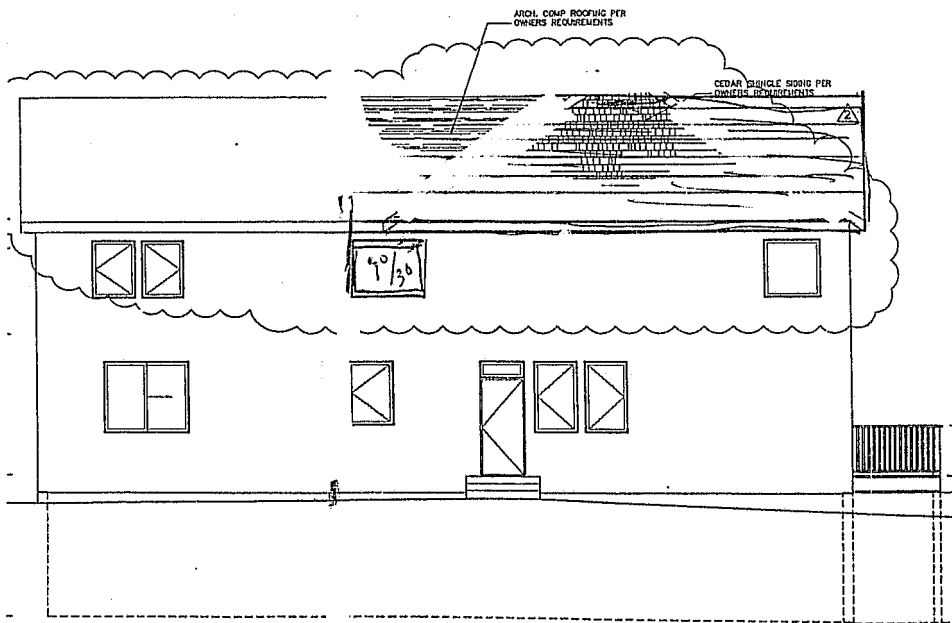
Telephone : (503) 289-7775  
Fax : (503) 283-4445



Goodell Residence

Portland, Oregon

Keyway Construction



1 NORTH ELEVATION  
ST.07

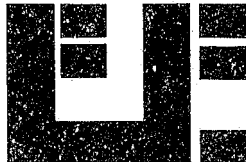
1/4" = 1'-0"

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Consulting Engineering \* Civil \* Structural \* Environmental Engineering \* Planning

922 N. Killingsworth St. - Suite: 1A  
Portland, OR 97217 USA  
Email : jaimelim@asianreporter.com

Telephone : (503) 289-7775  
Fax : (503) 283-4445



|                   |                  |                     |
|-------------------|------------------|---------------------|
| Goodell Residence | Portland, Oregon | Keyway Construction |
|-------------------|------------------|---------------------|

## Materials Guide

| SHEARWALL SCHEDULE |           |                       |                |                 |                  |                  |                                                                           |
|--------------------|-----------|-----------------------|----------------|-----------------|------------------|------------------|---------------------------------------------------------------------------|
| MARK X             | SHEAR PLF | WALL COVER            | GALV. BOX NAIL | EDGE NAILS O.C. | FIELD NAILS O.C. | 5/8x10 A.B. O.C. | REMARKS                                                                   |
| S                  | 260       | 15/32" P/W            | 8d             | 6"              | 12"              | 58"              | Standard Shearwall: All exterior walls unless noted otherwise             |
| A                  | 300       | 15/32" GWB Both Sides | 5d GWB         | 4"              | 4"               | 60"              | Mark A 1 is GWB one side only - 150 plf. All panel edges are blocked      |
| B                  | 310       | 15/32" P/W            | 10d            | 6"              | 12"              | 48"              |                                                                           |
| C                  | 460       | 15/32" P/W            | 10d            | 4"              | 12"              | 32"              | 3x panel, sill plates, staggered nailing. Pl 2x2x3/16 for sill plate A.B. |
| D                  | 600       | 15/32" P/W            | 10d            | 3"              | 9"               | 24"              | 3x panel, sill plates, staggered nailing. Pl 2x2x3/16 for sill plate A.B. |
| E                  | 770       | 15/32" P/W            | 10d            | 2"              | 6"               | 18"              | 3x panel, sill plates, staggered nailing. Pl 2x2x3/16 for sill plate A.B. |
| F                  | 920       | 15/32" P/W Both Sides | 10d            | 4"              | 12"              | 16"              | 3x panel, sill plates, staggered nailing. Pl 2x2x3/16 for sill plate A.B. |
| G                  | 1540      | 15/32" P/W Both Sides | 10d            | 2"              | 4"               | 12"              | 3x panel, sill plates, staggered nailing. Pl 2x2x3/16 for sill plate A.B. |

| HOLDOWN SCHEDULE |           |                 |                       |                                      |
|------------------|-----------|-----------------|-----------------------|--------------------------------------|
| MARK X           | LOAD LBS. | SIMPSON MODEL * | FASTENERS             | REMARKS                              |
| 0                |           |                 |                       | No holdown is required               |
| 1                | 3135      | MST 48          | 16 - 16D each end     |                                      |
| 2                | 4785      | MST 60          | 23 - 16d each end     |                                      |
| 3                | 5822      | MST 72          | 28 - 16d each end     |                                      |
| 4                | 7600      | FTA 7           | (6) - 7/8" A307 bolts |                                      |
| 5                | 2210      | HPAHD22         | 10 - 16d              | Corner installation with rim joist   |
| 6                | 4050      | HIT 22          | 32 - 16d sinkers      | Requires SSTB24 A.B.                 |
| 7                | 5100      | HD6A            | (2) - 7/8" A307 bolts | Requires SSTB28 A.B.                 |
| 8                | 7460      | HD8A            | (3) - 7/8" A307 bolts | Requires SSTB28 A.B.                 |
| 9                | 9540      | HD10A           | (4) - 7/8" A307 bolts | 7/8" A.B. x 24" 6x6 posts 3x studs   |
| 10               | 15305     | HD15            | (5) - 1" A307 bolts   | 1 1/4" A.B. x 36" 6x6 posts 3x studs |

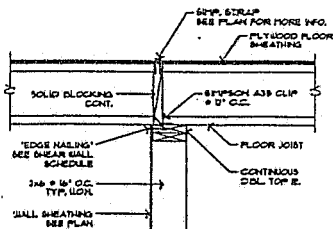
# UNITED ENGINEERING, INC.

Consulting Engineers • Civil • Structural  
Environmental Engineering • Planning

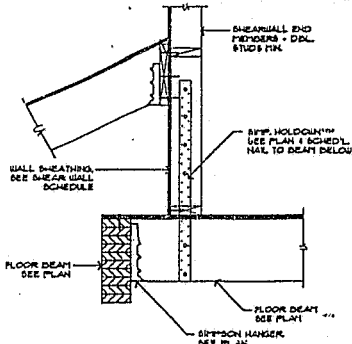
922 N. Killingsworth St., 1A Tel: (503) 283-0595  
Portland, Oregon 97217 USA Fax: (503) 283-4445  
e-mail: uei@juno.com

## GOODELL RESIDENCE

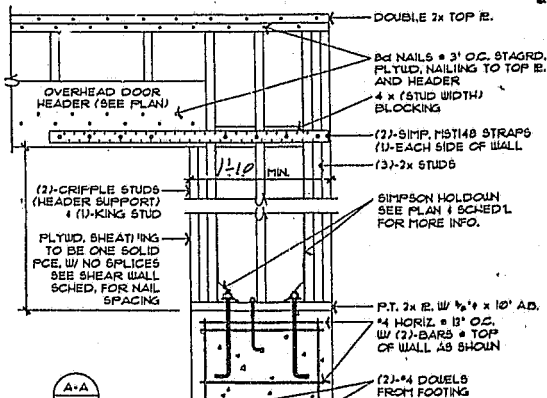
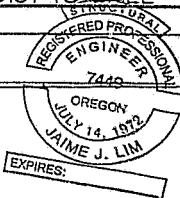
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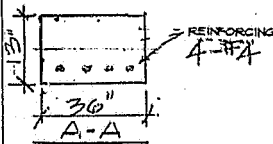
23  
52 JOIST TO WALL



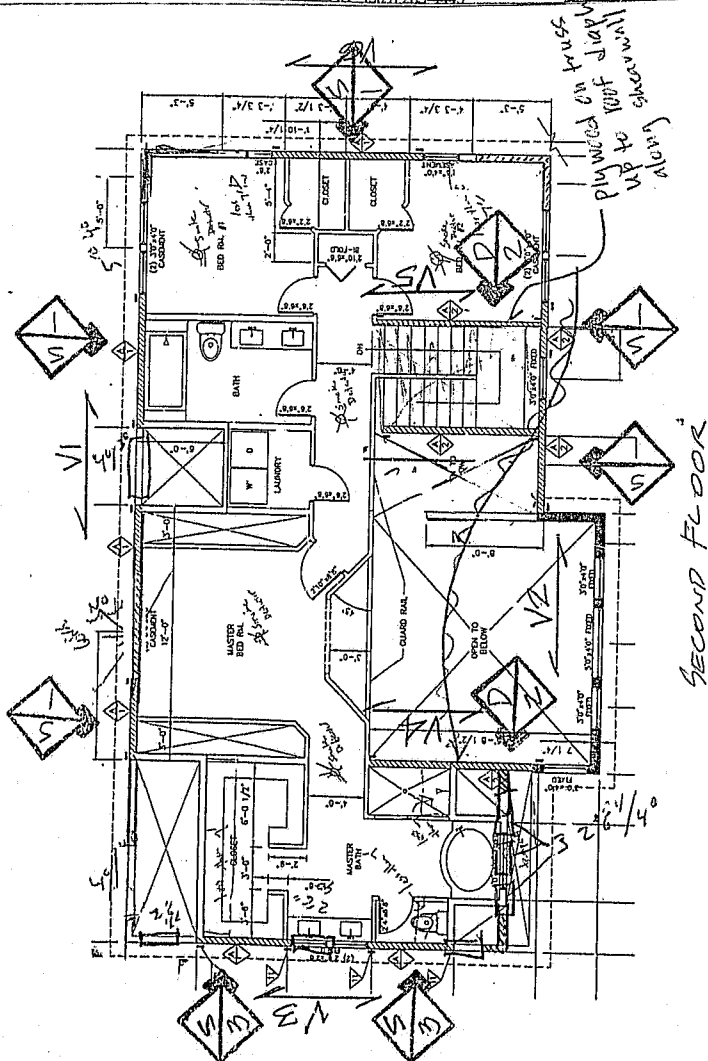
24  
52 HOLDOWN DETAIL



25  
52 SHEARWALL AT GARAGE



Fax: (503) 283-4445



THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS H&E

Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.



|          |          |        |                     |
|----------|----------|--------|---------------------|
| TC LL    | 40.0 PSF | REF    | R7175- 45780        |
| TC DL    | 7.0 PSF  | DATE   | 04/27/06            |
| BC DL    | 10.0 PSF | DRW    | CAUSER7175 06717506 |
| BC LL    | 0.0 PSF  | CA-ENG | TSB/GWH             |
| TOT.LD.  | 57.0 PSF | SEQN-  | 45709               |
| DUR.FAC. | 1.15     | FROM   | DC                  |
| SPACING  | 24.0"    | JREF-  | 1SWP7175Z04         |

(0306176 Job:0306176 /SYLVIN HILL JOB - NEED ADDRESS LOCATION IS. OR - A)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x6 HF #2  
Bot.chord 2x4 HF #2  
WEBS 2x4 HF Std/Stud

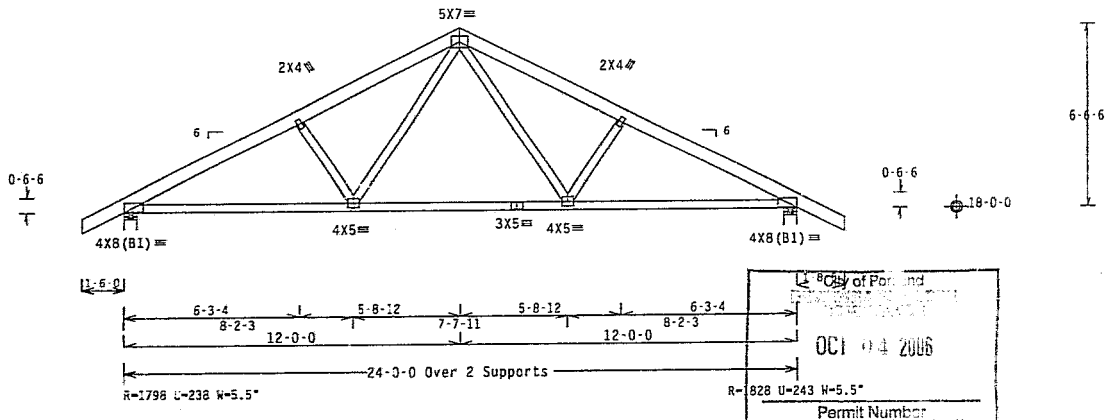
In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

Deflection meets L/240 live and L/180 total load.

90 mph wind, 21.11 ft mean hgt. ASCE 7-98. CLOSED bldg. Located anywhere in roof. CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Truss design per IBC sect. 2306.1. 10.00 psf non-concurrent bottom chord live load applied per ANSI/TPI 1.

Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.



PLT TYP. Wave

Design Crit TPI-2002(STD)/IBC

Cg/RT=1.00(1.25)/10(0) 7.12.0218.0

QTY:1

OR/-/1/-/R/-

Scale =.25"/Ft.

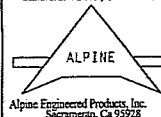
Truss Components of Oregon (503)157-825 North 4 Street, Cornelius OR

WARNING\*\* TRUSSES REQUIRE EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BOLD LINES BUILDING COMPLIANCE SAFETY INFORMATION. PURCHASED BY TPI TRUSS MFR. PRODUCT, HAS TO COMPLY WITH STATE AND FEDERAL, AND LOCAL AND AREA (LOCAL TRUSS CODES) OF AMERICA. BIDD ENTERPRISE (IN WASHINGTON, WA) FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS FUNCTIONS. TRUSSES EXTERIOR PROTECTION: VAPOR BARRIER SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORDS SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

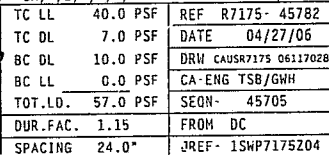
\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. A LICENSED ENGINEER PROVIDES THE DESIGN. THE USER IS RESPONSIBLE FOR THE DESIGN. ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH THE DESIGN, OR FABRICATING, HANDLING, SHIPPING, INSTALLATION, OR BRACING OF TRUSSES DESIGN COMPONENTS WITH ANY LOCAL, AREA, STATE, OR FEDERAL DESIGN SPEC, OR APPROVAL, OR THE FABRICATOR'S PLATES AND MAKE OF 2X4/184 (IN W/4) ASTM A501 GRADE 43/43 (IN W/4) SPLY. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. PROTECT PER DRAWING 184-2. ANY INSPECTION OF PLATES PROVIDED BY (V) SHALL BE PER ANNEAL OF THIS DESIGN. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SEE V FOR THE TRUSS COMPONENT DESIGN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/APA 1 SEC. 2.



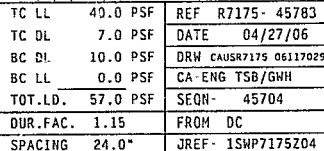
|          |          |                        |
|----------|----------|------------------------|
| TC LL    | 40.0 PSF | REF R7175- 45781       |
| TC DL    | 7.0 PSF  | DATE 04/27/06          |
| BC DL    | 10.0 PSF | DRW CAUSR7175 06117027 |
| BC LL    | 0.0 PSF  | CA-ENG TSB/GWH *       |
| TOT.LD.  | 57.0 PSF | SEQN- 45708            |
| DUR.FAC. | 1.15     | FROM DC                |
| SPACING  | 24.0"    | JREF- 1SWP7175Z04      |



Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.



Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.





(0306176-Job:0306176 /SVLVINE HILL JOB -- NEED ADDRESS LOCATION IS. OR - BSTRGE)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x6 HF #2  
Bot. chord 2x4 DF-L 2400F-2.0E  
Webs 2x4 HF Std/Stud #1, W3, W6 2x4 HF #2:  
W4 2x4 DF-L 2400F-2.0E:

See DWGS A10030EC1103, GBLLETIN0405, & GBLBRSTC0405 for more requirements.

Truss design per IBC sect. 2306.1. 10.00 psf non-concurrent bottom chord live load applied per ANSI/TPI 1.

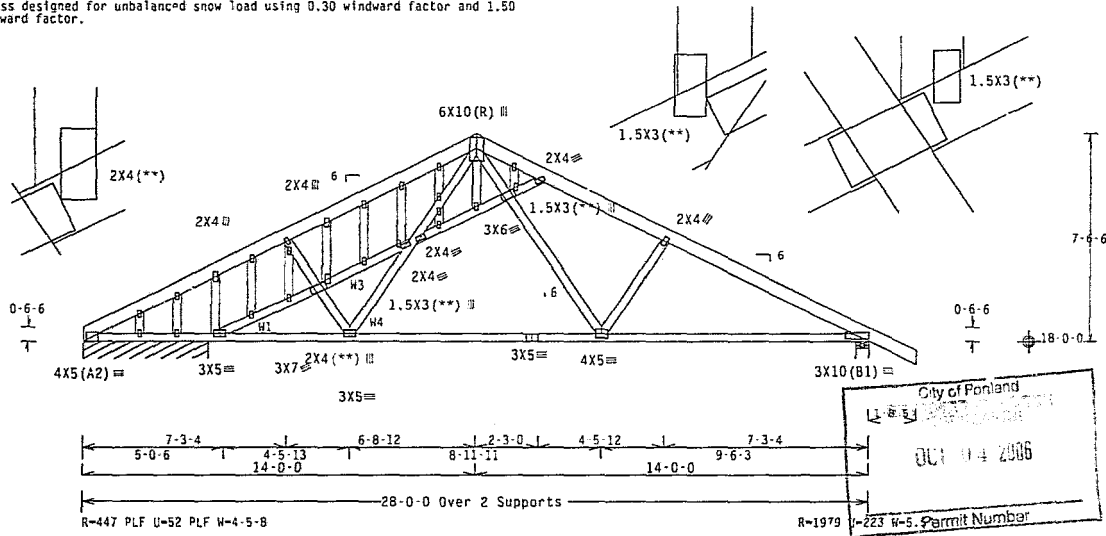
Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.

90 mph wind, 21.61 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Gable end supports 8" max rake overhang.

In lieu of rigid ceiling use pullins to brace BC @ 24" OC.

Deflection meets L/240 live and L/180 total load.



Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: TPI-2002(STD)/IBC

PLT TYP. 20 Gauge HS.Wave

Cq/RT=1.00(1.25)/10(0) 7.12.0218

QTY:1 OR/-/1/-/R/-

Scale =.25"/Ft.

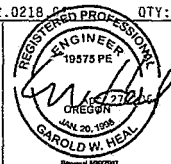
Truss Components of Oregon (503)157-825 North 4 Street, Cornelius OR

WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO INSTRUCTIONS FOR BUILDING CONFORMANCE WITH THE TRUSS MANUFACTURER'S INSTRUCTIONS. ANY FAILURE TO FOLLOW THE TRUSS MANUFACTURER'S INSTRUCTIONS WILL BE THE RESPONSIBILITY OF THE USER. THE TRUSS MANUFACTURER'S INSTRUCTIONS ARE THE ONLY AUTHORITY FOR THE USER. THE TRUSS MANUFACTURER'S INSTRUCTIONS ARE THE ONLY AUTHORITY FOR THE USER. THE TRUSS MANUFACTURER'S INSTRUCTIONS ARE THE ONLY AUTHORITY FOR THE USER.

IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING ADVISES: THE USER SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE TRUSS OR TO THE BUILDING. THE USER SHALL BE RESPONSIBLE FOR THE PROPER HANDLING, SHIPPING, INSTALLING AND BRACING OF THE TRUSS. THE USER SHALL BE RESPONSIBLE FOR THE PROPER HANDLING, SHIPPING, INSTALLING AND BRACING OF THE TRUSS. THE USER SHALL BE RESPONSIBLE FOR THE PROPER HANDLING, SHIPPING, INSTALLING AND BRACING OF THE TRUSS.



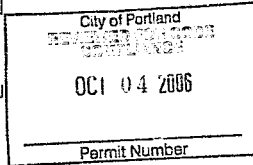
Alpine Engineered Products, Inc.  
Saratoga, Ca 95078



|          |          |                        |
|----------|----------|------------------------|
| TC LL    | 40.0 PSF | REF R7175- 45785       |
| TC DL    | 7.0 PSF  | DATE 04/27/06          |
| BC DL    | 10.0 PSF | DRN CAUSR7175 06117031 |
| BC LL    | 0.0 PSF  | CA-ENG TSB/GHH         |
| TOT.LD.  | 57.0 PSF | SEQN- 45710            |
| DUR.FAC. | 1.15     | FROM DC                |
| SPACING  | 24.0"    | JREF- 1SNP7175204      |

Truss design per IBC sect. 2306.1. 10.00 psf non-concurrent bottom  
chord live load applied per ANSI/TPI 1.

Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.



Scale = .3125"/Ft.

[illegible]

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 40.0 PSF | REF    | R7175- 45786       |
| TC DL    | 7.0 PSF  | DATE   | 04/27/06           |
| BC DL    | 10.0 PSF | DRW    | CAUSR7175 06117032 |
| BC LL    | 0.0 PSF  | CA-ENG | TSB/GWH            |
| TOT.LD.  | 57.0 PSF | SEQN-  | 45707              |
| DUR.FAC. | 1.15     | FROM   | DC                 |
| SPACING  | 24.0"    | JREF-  | 1SWP7175Z04        |

Top chord 2x6 HF #2  
Bot. chord 2x4 DF-L #18Bct-(g)  
Webs 2x4 HF Std/Stud

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

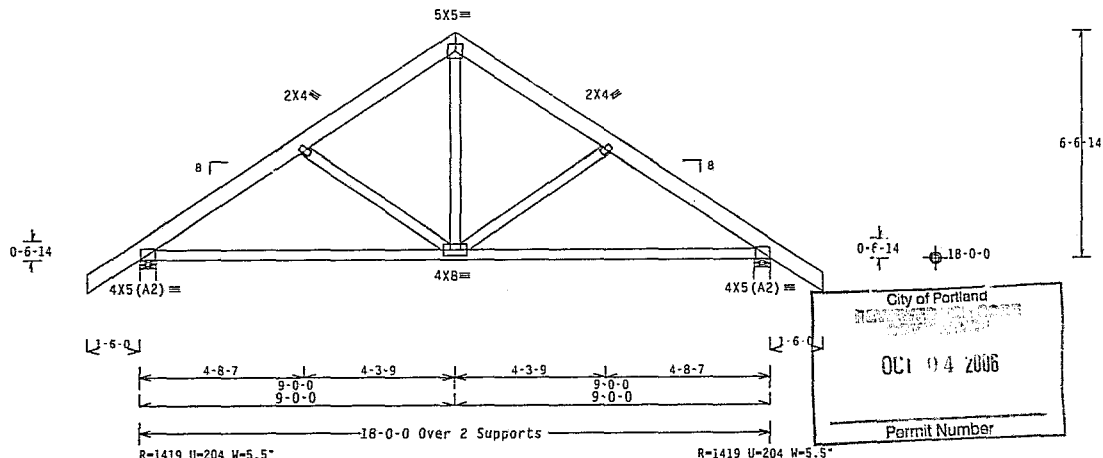
Truss design per IBC sect. 2306.1. 10.00 psf non-concurrent bottom chord live load applied per ANSI/TPI 1.

90 mph wind. 21.07 ft mean hgt. ASCE 7-98. CLOSED b'ldg. Located anywhere in roof, CAT II, EXP C, wind TC DL=5.7 psf, wind BC DL=5.0 psf.

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

Deflection meets L/240 live and L/180 total load.

Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.



PLT TYP. Wave

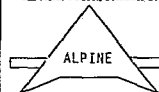
Design Crit: TPI-2002(STD)/IBC

Cg/RT=1.00(1.25)/10(0) 7.12.0218.02

QTY:1 OR: /1/- /- /R/

Scale = .3125"/Ft.

Truss Components of Oregon (503)257-1177  
P25 North 4 Street, Cornelius OR



Alpine Engineered Products, Inc.  
Sacramento, Ca 95828

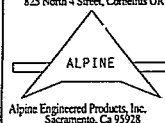
**\*\*IMPORTANT\*\*** Truss requires extensive care in fabrication, handling, shipping, installing and bracing. Truss is to be erected in accordance with the following instructions. Truss is to be erected in accordance with the following instructions. Truss is to be erected in accordance with the following instructions.

**\*\*IMPORTANT\*\*** Truss is to be erected in accordance with the following instructions. Truss is to be erected in accordance with the following instructions. Truss is to be erected in accordance with the following instructions.



|          |          |                        |
|----------|----------|------------------------|
| TC LL    | 40.0 PSF | REF R7175- 45787       |
| TC DL    | 7.0 PSF  | DATE 04/27/06          |
| BC DL    | 10.0 PSF | DRW CAUSR7175 06117033 |
| BC LL    | 0.0 PSF  | CA-ENG TSB/GWH *       |
| TOT.LD.  | 57.0 PSF | SEQN- 45706            |
| DUR.FAC. | 1.15     | FROM DC                |
| SPACING  | 24.0"    | JREF- 1SWP7175Z04      |

|          |          |                        |
|----------|----------|------------------------|
| TC LL    | 40.0 PSF | REF R7175- 45788       |
| TC DL    | 7.0 PSF  | DATE 04/27/06          |
| BC DL    | 10.0 PSF | DRW CAUSR7175 06117034 |
| BC LL    | 0.0 PSF  | CA-ENG TSB/GWH         |
| TOT.LD.  | 57.0 PSF | SEQN- 45725            |
| DUR.FAC. | 1.15     | FROM DC                |
| SPACING  | 24.0"    | JREF- 1SWP7175Z04      |

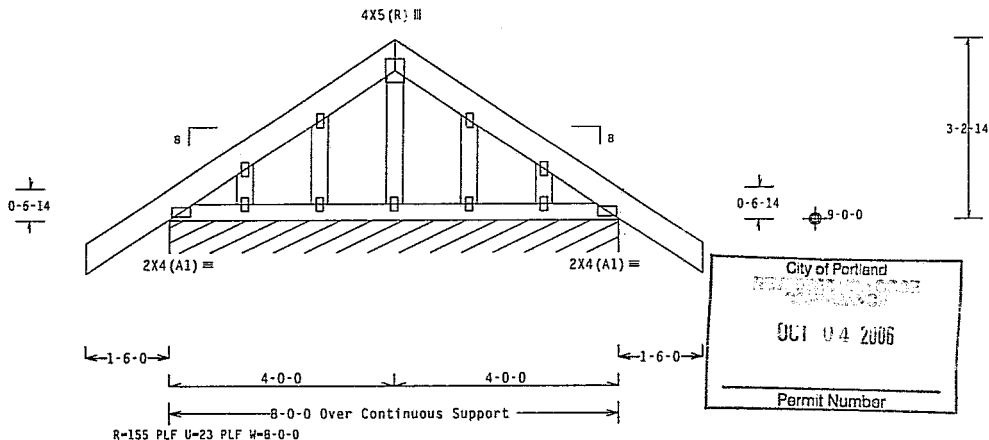


90 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg. Located  
anywhere in roof. CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0  
psf.

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

Deflection meets L/240 live and L/180 total load.

Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.



Design Crit: TPI-2002(STD)/IBC

Cg/RT=1.00(1.25)/10(0) 7.12.0218.02

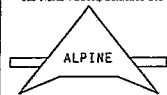
QTY:1 OR/-/1/-/-/R/-

Scale = .5"/Ft.

WARNING--\*\* TRUSSES REQUIRING LIFTING CARE IN RAMP, ATTACH, HANDLING, SHIPPING, INSTALLING AND BRACING. TOP CHORD MUST BE PROPERLY SECURED TO COMPONENT SAFETY (INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 300 S. DAVENPORT DR., SUITE 100, MADISON, WI 53718; AND WEA (NAT'L TRUSS COUNCIL) OF AMERICA, 6300 WINTERPARK LN, MADISON, WI 53719; FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TRUSS CEILING.



|          |          |                        |
|----------|----------|------------------------|
| TC LL    | 40.0 PSF | REF R7175- 45789       |
| TC DL    | 7.0 PSF  | DATE 04/27/06          |
| BC DL    | 10.0 PSF | DRW CAUSR7175 06117035 |
| BC LL    | 0.0 PSF  | CA-ENG TSB/GWH         |
| TOT.LD.  | 57.0 PSF | SEQN 45714             |
| DUR.FAC. | 1.15     | FROM DC                |
| SPACING  | 24.0"    | JREF- 1SWP7175Z04      |



Alpine Engineered Products, Inc.  
Sacramento, Ca 95928

(0306176 Job: C306176 /SYLVIN HILL JOB -- NEED ADDRESS LOCATION IS, OR - P)

Top chord 2x6 HF #2  
Bot. chord 2x4 HF #2  
Webs 2x4 HF Std/Stud

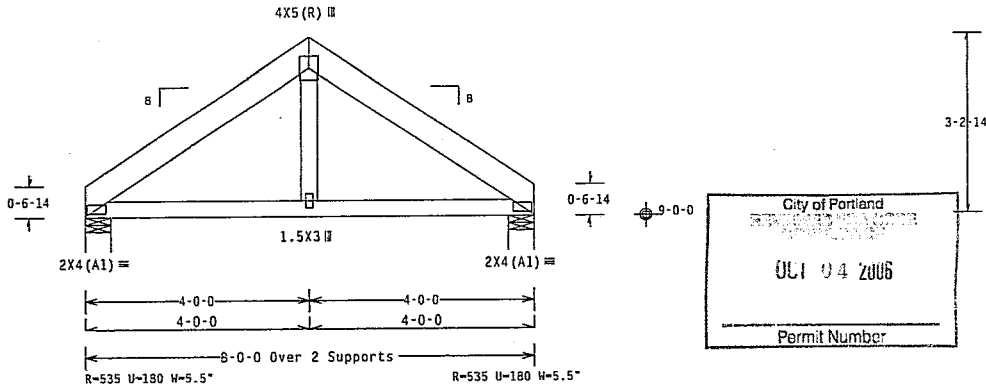
In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

Deflection meets L/240 live and L/180 total load.

90 mph wind, 15.00 ft mean hgt. ASCE 7-98, CLOSED bldg. Located anywhere in roof. CAT II. EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Truss design per IBC sect. 2306.1. 10.00 psf non-concurrent bottom chord live load applied per ANSI/TPI 1.

Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/IBC

Cg/RY-1.00(1.25)/10(0) 7.12.0218.02

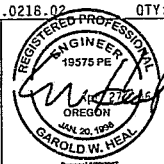
QTY:1 OR/-/1/-/R/-

Scale = 5"/Ft.

Truss Components of Oregon (503)357-1371  
825 North 4 Street, Corvallis OR

"WARNING" - THESE REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. ALWAYS TO BEAT 1:80 (INCLUDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE TRUSS PLATE INSTITUTE, 683 S. WILSON ST., SUITE 200, PORTLAND, OR 97201 AND AIAA (AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS) PUBLICATION, NO. 537391 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

"IMPORTANT" - FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE: ON FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AIAA (NATIONAL DESIGN SPEC. BY AIAA) AND THE: ALPINE TRUSS PLATE INSTITUTE, 683 S. WILSON ST., SUITE 200, PORTLAND, OR 97201. AIAA (AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS) PUBLICATION, NO. 537391 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.



Alpine Engineered Products, Inc.  
Sacramento, Ca 95828

| TC LL     | 40.0 PSF | REF R7175- 45790       |
|-----------|----------|------------------------|
| TC DL     | 7.0 PSF  | DATE 04/27/06          |
| BC DL     | 10.0 PSF | DRW CAUSR7175 06117036 |
| BC LL     | 0.0 PSF  | CA-ENG TSB/GNH *       |
| TOT. LD.  | 57.0 PSF | SEQN- 45715            |
| DUR. FAC. | 1.15     | FROM DC                |
| SPACING   | 24.0"    | JREF- 1SNP7175204      |

(0306176-Job:0306176 /SYLVIN HILL JDB -- NEED ADDRESS LOCATION IS. OR - P1)

Top chord 2x6 HF #2  
Bot chord 2x4 HF #2  
Webs 2x4 HF Std/Stud

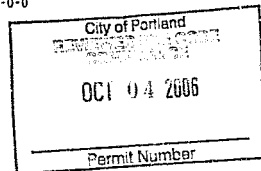
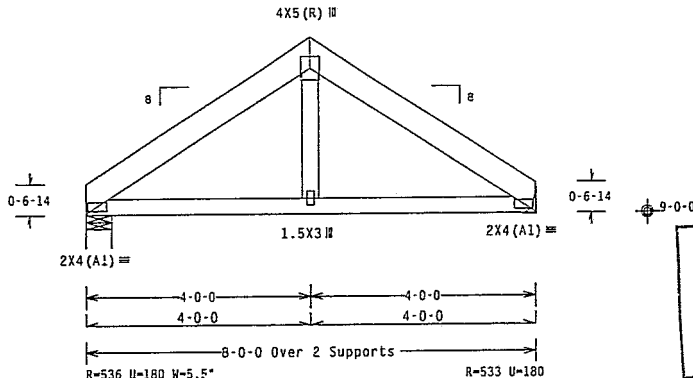
In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

Deflection meets L/240 live and L/180 total load.

90 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg. Located  
anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind GC DL=5.0  
psf.

Truss design per IBC sect. 2306.1, 10.00 psf non-concurrent bottom  
chord live load applied per ANSI/TPI 1.

Truss designed for unbalanced snow load using 0.30 windward factor and  
1.50 leeward factor.



PLT TYP. Wave

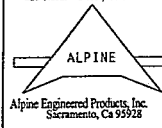
Design Crit: TPI-2002(STD)/IBC

Cq/RT=1.00(1.25)/10(0) 7.12.0218.0

QTY:1 OR:-/1/-/1/-/

Scale =.5"/Ft.

Truss Components of Oregon (501)357-1717  
825 North 4 Street, Corvallis OR



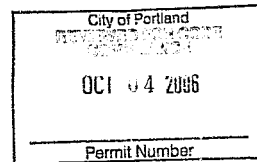
**WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.  
ALPINE TO BE RESPONSIBLE FOR ANY DAMAGE TO THE TRUSS DURING THE DESIGN, FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.  
THE USER SHALL BE RESPONSIBLE FOR THE TRUSS BEING USED IN ACCORDANCE WITH THE DESIGN, FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.  
THE USER SHALL BE RESPONSIBLE FOR THE TRUSS BEING USED IN ACCORDANCE WITH THE DESIGN, FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.  
THE USER SHALL BE RESPONSIBLE FOR THE TRUSS BEING USED IN ACCORDANCE WITH THE DESIGN, FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE TRUSS DURING THE DESIGN, FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.  
THE USER SHALL BE RESPONSIBLE FOR THE TRUSS BEING USED IN ACCORDANCE WITH THE DESIGN, FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.  
THE USER SHALL BE RESPONSIBLE FOR THE TRUSS BEING USED IN ACCORDANCE WITH THE DESIGN, FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.  
THE USER SHALL BE RESPONSIBLE FOR THE TRUSS BEING USED IN ACCORDANCE WITH THE DESIGN, FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.



| TC LL    | 40.0 PSF | REF R7175- 45791       |
|----------|----------|------------------------|
| TC DL    | 7.0 PSF  | DATE 04/27/06          |
| BC DL    | 10.0 PSF | DRN CAUSR7175 06117037 |
| BC LL    | 0.0 PSF  | CA-ENG TSB/SMH *       |
| TOT.LD.  | 57.0 PSF | SEON- 45716            |
| DUR.FAC. | 1.15     | FROM DC                |
| SPACING  | 24.0"    | JREF- 1SNP7175204      |

Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.

[illegible]

|          |          |                        |
|----------|----------|------------------------|
| TC LL    | 40.0 PSF | REF R7175- 45792       |
| TC DL    | 7.0 PSF  | DATE 04/27/06          |
| BC DL    | 10.0 PSF | DRW CA\SR7175 06117038 |
| BC LL    | 0.0 PSF  | CA-ENG TSB/GWH         |
| TOT.LD.  | 57.0 PSF | SEQN- 45717            |
| DUR.FAC. | 1.15     | FROM DC                |
| SPACING  | 24.0"    | JREF- 1SWP7175Z04      |

(0306176-Job:0306176 /SYLVIN HILL JOB -- NEED ADDRESS LOCATION IS, OR - XG)

Top chord 2x6 HF #2  
Bot. chord 2x8 DF-L #2  
Webs 2x4 HF Std/Stud

## ADDITIONAL LOADS PER TRUSS FABRICATOR

BC - 533 LB Conc. Load at 2.06  
BC - 538 LB Conc. Load at 4.06, 5.94

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

Deflection meets L/240 live and L/180 total load.

Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.

## 2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Box or Gun (0.128"x3.25", min.) nails)

Top Chord: 1 Row @ 12.00" o.c.

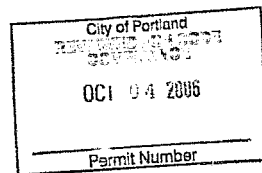
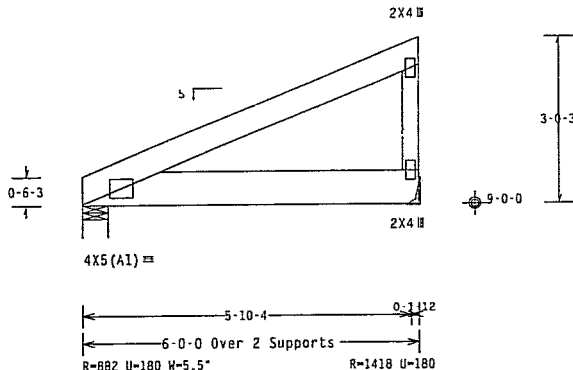
Bot Chord: 1 Row @ 4.50" o.c.

Webs: 1 Row @ 4" o.c.

Use equal spacing between rows and stagger nails in each row to avoid splitting.

90 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP. C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.



PLT TYP. Wave

Design Crit: TPI-2002(Std)/IBC

Cq/RT=1.00(1.25)10(0) 7.12.0218.02

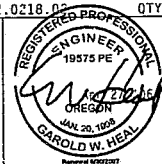
QTY:1 OR/-/1/-/1/-/1/-

Scale =.5"/Ft.

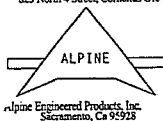
Truss Components of Oregon (SOS)1957-  
625 North 4 Street, Cornelius OR

WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, UNLOADING AND BRACING. REFER TO SPEC 1.05 (BUILDING COMPONENT SAFETY INFORMATION), FURNISHED BY THE (ISSUE) PLATE INSTITUTE, 545 9th STREET SW, SUITE 200, PORTLAND, OR 97204, AND MECA (MERCER) TRUSS COMPANY, 1000 INTERSTATE 5, PORTLAND, OR 97204, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLATES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

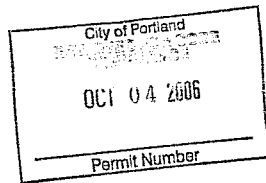
IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THIS DESIGN. ANY FAILURE TO BUILD THE DESIGN CHANGING WITH APPLICABLE, PERMISSIVE OF THE NATIONAL PLATE INSTITUTE, 545 9th STREET SW, SUITE 200, PORTLAND, OR 97204, AND MECA (MERCER) TRUSS COMPANY, 1000 INTERSTATE 5, PORTLAND, OR 97204, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLATES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.



|          |          |                        |
|----------|----------|------------------------|
| TC LL    | 40.0 PSF | REF R7175- 45793       |
| TC DL    | 7.0 PSF  | DATE 04/27/06          |
| BC DL    | 10.0 PSF | DRW CAUSR7175 06117039 |
| BC LL    | 0.0 PSF  | CA-ENG TSB/GWH         |
| TOT.LD.  | 57.0 PSF | SEQN- 45726            |
| DUR.FAC. | 1.15     | FROM DC                |
| SPACING  | 24.0"    | JREF- 1SWP7175204      |



Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.



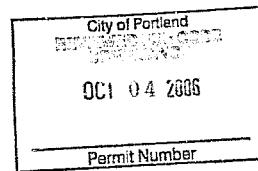
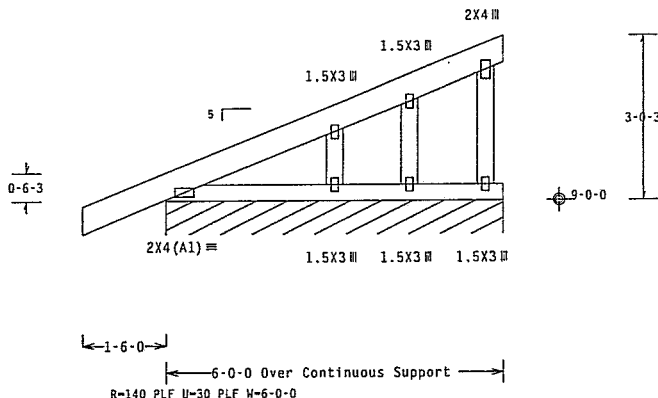
REGISTERED PROFESSIONAL  
ENGINEER  
19575 PE  
JAN. 20, 1988  
GAROLD W. HEAL  
Professional Engineer

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 40.0 PSF | REF    | R7175- 45794       |
| TC OL    | 7.0 PSF  | DATE   | 04/27/06           |
| BC OL    | 10.0 PSF | DRW    | CAUSR7175 06117040 |
| BC LL    | 0.0 PSF  | CA-ENG | TSB/GWH            |
| TOT.LD.  | 57.0 PSF | SEON-  | 45713              |
| DUR.FAC. | 1.15     | FROM   | DC                 |
| SPACING  | 24.0"    | JREF-  | 1SWP7175Z04        |



Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.

Deflection meets L/240 live and L/180 total load.



|          |          |                        |
|----------|----------|------------------------|
| TC LL    | 40.0 PSF | REF R7175- 45795       |
| TC DL    | 7.0 PSF  | DATE 04/27/06          |
| BC DL    | 10.0 PSF | DRW CAUSR7175 06117041 |
| BC LL    | 0.0 PSF  | CA-ENG TSB/GWH         |
| TOT.LO.  | 57.0 PSF | SEQN 45712             |
| DUR.FAC. | 1.15     | FROM DC                |
| SPACING  | 24.0"    | JREF- 1SWP7175Z04      |

(0306176-Job:0306176 /SYLVIN HILL JOB -- NEED ADDRESS LOCATION IS. OR X1)

Top chord 2x6 HF #2  
Bot.chord 2x4 HF #2  
Webs 2x4 HF Std/Stud

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

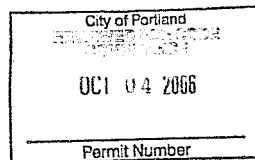
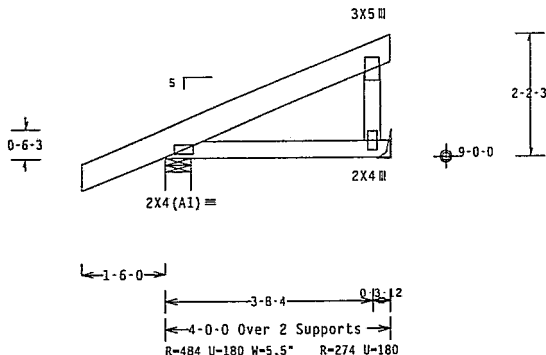
Truss design per IBC sect. 2306.1. 10.00 psf non-concurrent bottom chord  
live load applied per ANSI/TPI 1.

90 mph wind, 15.00 ft mean hgt. ASCE 7-98, CLOSED bldg. Located  
anywhere in roof. CAT II. EXP C. wind TC DL=5.0 psf, wind BC DL=5.0  
psf.

Right end vertical not exposed to wind pressure.

Deflection meets L/240 live and L/180 total load.

Truss designed for unbalanced snow load using 0.30 windward factor and  
1.50 leeward factor.



PLT TYP Wave

Truss Components of Oregon (503)357-1111  
825 North 4 Street, Corvallis OR



Design Crit: TPI-2002(STD)/IBC

Cg/RT=1.00(1.25)/10(0) 7.12.0218.03

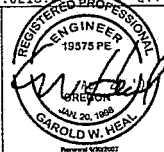
QTY:1

OR/-/1/-/1/-/1/-

Scale = 5"/ft.

"IMPORTANT" TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLATION AND BRACING.  
ALPHA TO BETA 1:03 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583  
BENTLEY DR., SUITE 200, MOBILE, AL 36688) AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 100  
N. MICHIGAN, 60611) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED,  
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED  
RIGID CEILING.

"IMPORTANT" FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED  
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN COMPLIANCE WITH THE TPI FABRICATING, HANDLING, SHIPPING, INSTALLATION AND BRACING OF TRUSSES  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AISC AND TPI. ALPINE  
ENGINEERED PRODUCTS, INC. HAS MADE OF COLORADO (IN ALPINE DESIGN AND DESIGN) IN THE U.S. ONLY. STEEL, ALPINE  
PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING TGA-2.  
ANY DEVIATION FROM PLATES FOLLOWS BY TPI SHALL BE PER AISC, AS TPI TYPE SPEC. 2. A SEAL ON THIS  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY BY THE TRUSS COMPONENT  
DESIGNER. THE DURABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER PER ANSI/ASCE 1 SEC. 2.



|  | TC LL    | 40.0 PSF | REF R7175- 45796       |
|--|----------|----------|------------------------|
|  | TC DL    | 7.0 PSF  | DATE 04/27/06          |
|  | BC DL    | 10.0 PSF | DRW CAUSR7175 06117042 |
|  | BC LL    | 0.0 PSF  | CA-ENG TSB/GWH *       |
|  | TOT.LD.  | 57.0 PSF | SEGN- 45721            |
|  | DUR.FAC. | 1.15     | FROM DC                |
|  | SPACING  | 24.0"    | JREF- 1SHWP7175204     |



(0306176 Job:0306176 /SYLVIN HILL JOB -- NEED ADDRESS LOCATION IS. OR - EJI)

|            |     |    |    |
|------------|-----|----|----|
| Top chord  | 2x6 | HF | #2 |
| Bot. chord | 2x4 | HF | #2 |

90 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

Deflection meets  $L/240$  live and  $L/180$  total load.

Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.

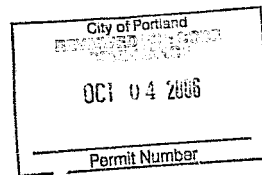
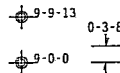
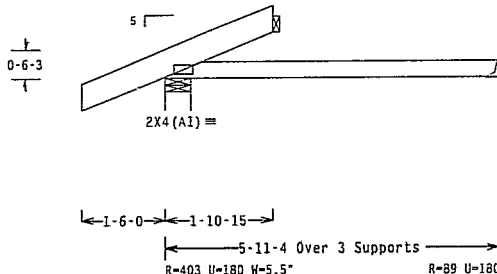
### ADDITIONAL LOADS PER TRUSS FABRICATOR

BC - 27 LB Conc. Load at 2.00

BC - 49 LB Conc, Load at 4.00

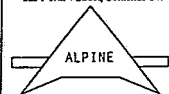
Truss design per IBC sect. 2306.1. 10.00 psf non-concurrent bottom chord live load applied per ANSI/TPI 1.

R-127 U-180



PLT TYP. Wave

Truss Components of Oregon (503)357-825 North 4 Street, Cornelius OR



Alpine Engineered Products, Inc.  
Sacramento, Ca 95928

Design Crit: TPI-2002(STD)/IBC

Cq/RT=1.00(1.25)/10(0) 7.12.0218.0

OTY:1

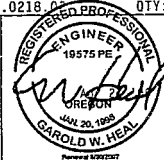
OR/-/1/-/-/R/-

Scale = .5" / Ft.

Truss Components of Oregon (503)357-825 North 4 Street, Cornelius OR

WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSS-1-83 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 400 N. BRYANT AVE., CHICAGO, ILL. 60610, AND AISC (WOOD TRUSS COUNCIL OF AMERICA, 4300 ENTERPRISE IN BIRMINGHAM, AL 35292) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, 10' CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BUTT CHORD SHALL HAVE A PROPERLY ATTACHED 10' CHORD CEILING.

**IMPORTANT:** <sup>(1)</sup> ~~THIS~~ <sup>(2)</sup> ~~THIS~~ <sup>(3)</sup> ~~THIS~~ <sup>(4)</sup> ~~THIS~~ <sup>(5)</sup> ~~THIS~~ <sup>(6)</sup> ~~THIS~~ <sup>(7)</sup> ~~THIS~~ <sup>(8)</sup> ~~THIS~~ <sup>(9)</sup> ~~THIS~~ <sup>(10)</sup> ~~THIS~~ <sup>(11)</sup> ~~THIS~~ <sup>(12)</sup> ~~THIS~~ <sup>(13)</sup> ~~THIS~~ <sup>(14)</sup> ~~THIS~~ <sup>(15)</sup> ~~THIS~~ <sup>(16)</sup> ~~THIS~~ <sup>(17)</sup> ~~THIS~~ <sup>(18)</sup> ~~THIS~~ <sup>(19)</sup> ~~THIS~~ <sup>(20)</sup> ~~THIS~~ <sup>(21)</sup> ~~THIS~~ <sup>(22)</sup> ~~THIS~~ <sup>(23)</sup> ~~THIS~~ <sup>(24)</sup> ~~THIS~~ <sup>(25)</sup> ~~THIS~~ <sup>(26)</sup> ~~THIS~~ <sup>(27)</sup> ~~THIS~~ <sup>(28)</sup> ~~THIS~~ <sup>(29)</sup> ~~THIS~~ <sup>(30)</sup> ~~THIS~~ <sup>(31)</sup> ~~THIS~~ <sup>(32)</sup> ~~THIS~~ <sup>(33)</sup> ~~THIS~~ <sup>(34)</sup> ~~THIS~~ <sup>(35)</sup> ~~THIS~~ <sup>(36)</sup> ~~THIS~~ <sup>(37)</sup> ~~THIS~~ <sup>(38)</sup> ~~THIS~~ <sup>(39)</sup> ~~THIS~~ <sup>(40)</sup> 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~~THIS~~ <sup>(81)</sup> ~~THIS~~ <sup>(82)</sup> ~~THIS~~ <sup>(83)</sup> ~~THIS~~ <sup>(84)</sup> ~~THIS~~ <sup>(85)</sup> ~~THIS~~ <sup>(86)</sup> ~~THIS~~ <sup>(87)</sup> ~~THIS~~ <sup>(88)</sup> ~~THIS~~ <sup>(89)</sup> ~~THIS~~ <sup>(90)</sup> ~~THIS~~ <sup>(91)</sup> ~~THIS~~ <sup>(92)</sup> ~~THIS~~ <sup>(93)</sup> ~~THIS~~ <sup>(94)</sup> ~~THIS~~ <sup>(95)</sup> ~~THIS~~ <sup>(96)</sup> ~~THIS~~ <sup>(97)</sup> ~~THIS~~ <sup>(98)</sup> ~~THIS~~ <sup>(99)</sup> ~~THIS~~ <sup>(100)</sup> ~~THIS~~ <sup>(101)</sup> ~~THIS~~ <sup>(102)</sup> ~~THIS~~ <sup>(103)</sup> ~~THIS~~ <sup>(104)</sup> ~~THIS~~ <sup>(105)</sup> ~~THIS~~ <sup>(106)</sup> ~~THIS~~ <sup>(107)</sup> ~~THIS~~ <sup>(108)</sup> ~~THIS~~ <sup>(109)</sup> ~~THIS~~ <sup>(110)</sup> ~~THIS~~ <sup>(111)</sup> ~~THIS~~ <sup>(112)</sup> ~~THIS~~ <sup>(113)</sup> ~~THIS~~ <sup>(114)</sup> ~~THIS~~ <sup>(115)</sup> ~~THIS~~ <sup>(116)</sup> ~~THIS~~ <sup>(117)</sup> ~~THIS~~ <sup>(118)</sup> ~~THIS~~ <sup>(119)</sup> 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<sup>(158)</sup> ~~THIS~~ <sup>(159)</sup> ~~THIS~~ <sup>(160)</sup> ~~THIS~~ <sup>(161)</sup> ~~THIS~~ <sup>(162)</sup> ~~THIS~~ <sup>(163)</sup> ~~THIS~~ <sup>(164)</sup> ~~THIS~~ <sup>(165)</sup> ~~THIS~~ <sup>(166)</sup> ~~THIS~~ <sup>(167)</sup> ~~THIS~~ <sup>(168)</sup> ~~THIS~~ <sup>(169)</sup> ~~THIS~~ <sup>(170)</sup> ~~THIS~~ <sup>(171)</sup> ~~THIS~~ <sup>(172)</sup> ~~THIS~~ <sup>(173)</sup> ~~THIS~~ <sup>(174)</sup> ~~THIS~~ <sup>(175)</sup> ~~THIS~~ <sup>(176)</sup> ~~THIS~~ <sup>(177)</sup> ~~THIS~~ <sup>(178)</sup> ~~THIS~~ <sup>(179)</sup> ~~THIS~~ <sup>(180)</sup> ~~THIS~~ <sup>(181)</sup> ~~THIS~~ <sup>(182)</sup> ~~THIS~~ <sup>(183)</sup> ~~THIS~~ <sup>(184)</sup> ~~THIS~~ <sup>(185)</sup> ~~THIS~~ <sup>(186)</sup> ~~THIS~~ <sup>(187)</sup> ~~THIS~~ <sup>(188)</sup> ~~THIS~~ <sup>(189)</sup> ~~THIS~~ <sup>(190)</sup> ~~THIS~~ <sup>(191)</sup> ~~THIS~~ <sup>(192)</sup> ~~THIS~~ <sup>(193)</sup> ~~THIS~~ <sup>(194)</sup> ~~THIS~~ <sup>(195)</sup> ~~THIS~~ <sup>(196)</sup> ~~THIS~~ <sup>(197)</sup> ~~THIS~~ <sup>(198)</sup> ~~THIS~~ <sup>(199)</sup> ~~THIS~~ <sup>(200)</sup> ~~THIS~~ <sup>(201)</sup> ~~THIS~~ <sup>(202)</sup> ~~THIS~~ <sup>(203)</sup> ~~THIS~~ <sup>(204)</sup> ~~THIS~~ <sup>(205)</sup> ~~THIS~~ <sup>(206)</sup> ~~THIS~~ <sup>(207)</sup> ~~THIS~~ <sup>(208)</sup> ~~THIS~~ <sup>(209)</sup> ~~THIS~~ <sup>(210)</sup> ~~THIS~~ <sup>(211)</sup> ~~THIS~~ <sup>(212)</sup> ~~THIS~~ <sup>(213)</sup> ~~THIS~~ <sup>(214)</sup> ~~THIS~~ <sup>(215)</sup> ~~THIS~~ <sup>(216)</sup> ~~THIS~~ <sup>(217)</sup> ~~THIS~~ <sup>(218)</sup> ~~THIS~~ <sup>(219)</sup> ~~THIS~~ <sup>(220)</sup> ~~THIS~~ <sup>(221)</sup> ~~THIS~~ <sup>(222)</sup> ~~THIS~~ <sup>(223)</sup> ~~THIS~~ <sup>(224)</sup> ~~THIS~~ <sup>(225)</sup> ~~THIS~~ <sup>(226)</sup> ~~THIS~~ <sup>(227)</sup> ~~THIS~~ <sup>(228)</sup> ~~THIS~~ <sup>(229)</sup> ~~THIS~~ <sup>(230)</sup> ~~THIS~~ <sup>(231)</sup> ~~THIS~~ <sup>(232)</sup> ~~THIS~~ <sup>(233)</sup> ~~THIS~~ <sup>(234)</sup> ~~THIS~~ <sup>(235)</sup> ~~THIS~~ <sup>(236)</sup> ~~THIS~~ <sup>(237)</sup> ~~THIS~~ <sup>(238)</sup> ~~THIS~~ <sup>(239)</sup> ~~THIS~~ <sup>(240)</sup> ~~THIS~~ <sup>(241)</sup> ~~THIS~~ <sup>(242)</sup> ~~THIS~~ <sup>(243)</sup> ~~THIS~~ <sup>(244)</sup> ~~THIS~~ <sup>(245)</sup> ~~THIS~~ <sup>(246)</sup> ~~THIS~~ <sup>(247)</sup> ~~THIS~~ <sup>(248)</sup> ~~THIS~~ <sup>(249)</sup> ~~THIS~~ <sup>(250)</sup> ~~THIS~~ <sup>(251)</sup> ~~THIS~~ <sup>(252)</sup> ~~THIS~~ <sup>(253)</sup> ~~THIS~~ <sup>(254)</sup> ~~THIS~~ <sup>(255)</sup> ~~THIS~~ <sup>(256)</sup> ~~THIS~~ <sup>(257)</sup> ~~THIS~~ <sup>(258)</sup> ~~THIS~~ <sup>(259)</sup> ~~THIS~~ <sup>(260)</sup> ~~THIS~~ <sup>(261)</sup> ~~THIS~~ <sup>(262)</sup> ~~THIS~~ <sup>(2</sup>



|          |          |                        |
|----------|----------|------------------------|
| TC LL    | 40.0 PSF | REF R7175- 45798       |
| TC DL    | 7.0 PSF  | DATE 04/27/06          |
| BC DL    | 10.0 PSF | DRW CAUSR7175 06117044 |
| BC LL    | 0.0 PSF  | CA-ENG TSB/GWH         |
| TOT.LD.  | 57.0 PSF | SEQN- 45722            |
| DUR.FAC. | 1.15     | FROM DC                |
| SPACING  | 24.0"    | JREF- 1SWP7175204      |

Top chord 2x6 HF #2  
Bot. chord 2x4 HF #2

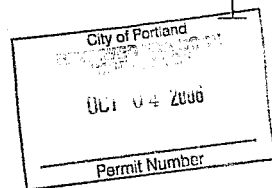
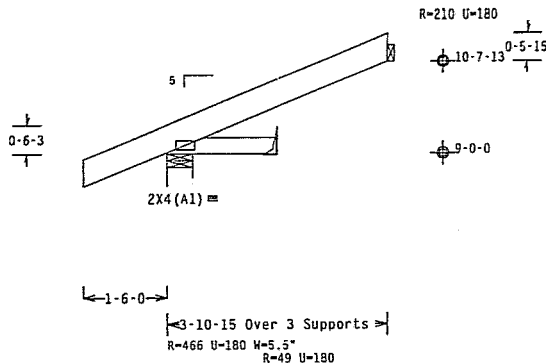
In lieu of r.g.d ceiling use purlins to brace BC @ 24" OC.

Deflection meets L/240 live and L/180 total load.

Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.

90 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg. Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Truss design per IBC sect. 2306.1, 10.00 psf non-concurrent bottom chord live load applied per ANSI/TPI 1.



PLY TYP. Wave

Design Crit: TPI-2002(STD)/IBC

Cq/RT=1.00(1.25)/10(0) 7.12.0218.02

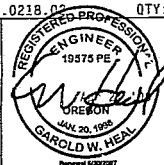
QTY:1 OR/-/1/-/1/-/

Scale = .5"/Ft.

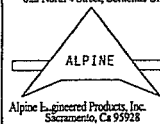
Truss Components of Oregon (SD)157-  
825 North 4 Street, Cornelius OR

**WARNING:** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. AFTER 30 SECS (1.03) (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 883 O'CONNOR ST., SUITE 200, MADISON, WI 53719) AND WHEN UNDER TRUSS COUNCIL OF AMERICA, 8800 ENTERPRISE LN, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING PROVIDES THE TRUSS SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN, OF FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, DESIGN EQUIPMENT WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AISC AND TPI. APPLY THE DESIGNER'S PLATES AND MAKE OF CONNECTIONS (DRAWING ASH 400 GRADE 40/60 (IN 40M-3) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED IN THIS DESIGN. POSITION PER DRAWING IS THE DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



|  | TC LL    | 40.0 PSF | REF R7175- 45799       |
|--|----------|----------|------------------------|
|  | TC DL    | 7.0 PSF  | DATE 04/27/06          |
|  | BC DL    | 10.0 PSF | DRW CAUSR7175 06117045 |
|  | BC LL    | 0.0 PSF  | CA-ENG TSB/GWH *       |
|  | TOT.LD.  | 57.0 PSF | SEON- 45719            |
|  | DUR.FAC. | 1.15     | FROM DC                |
|  | SPACING  | 24.0"    | JREF- 1SWP7175Z04      |



(0306176-Job:0306176 /SYLVIN HILL JOB -- NEED ADDRESS LOCATION IS, OR - SJ1)

|            |     |    |    |
|------------|-----|----|----|
| Top chord  | 2x6 | HF | #2 |
| Bot. chord | 2x4 | HF | #2 |

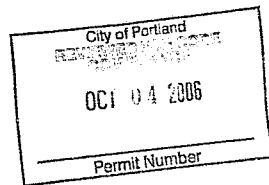
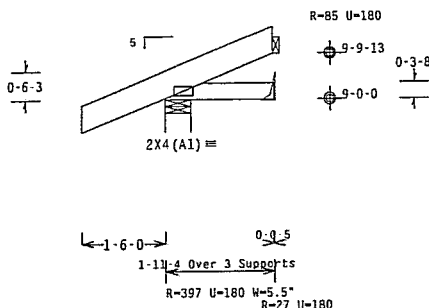
In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

Deflection meets L/240 live and L/180 total load.

Truss designed for unbalanced snow load using 0.30 windward factor and 1.50 leeward factor.

90 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg. Located anywhere in roof, CAT II, EYP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

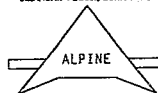
Truss design per IBC sect. 2306.1. 10.00 psf non-concurrent bottom chord live load applied per ANSI/TPI 1.



Design Crit: TPI-2002(STD)/IBC  
Cn/RT=1.00(1.25)/10(0) 7.12.0218.02

PLT TYP. Wave

Truss Components of Oregon (503)357-  
825 North 4 Street, Cornelius OR



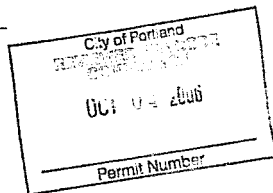
Alpine Engineered Products, Inc.  
Sacramento, Ca 95928

WARNING \*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO MECH 103 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE IRVING PLATE INSTITUTE, AND IRVING 001, SUBJECT: WELDING, MECH 103/19 AND MECA 1000 TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE IN HOUSTON, TX 77037 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE \*\*\*PERMANENTLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

[illegible]

| QR-/1/-/1-/R/- |          | Scale = .5"/Ft. |                    |
|----------------|----------|-----------------|--------------------|
| TC LL          | 40.0 PSF | REF             | R7175- 45800       |
| TC DL          | 7.0 PSF  | DATE            | 04/27/06           |
| BC DL          | 10.0 PSF | DRW             | CAUSR7175 06117046 |
| BC LL          | 0.0 PSF  | CA-ENG          | TSB/GWH            |
| TOT.LD.        | 57.0 PSF | SEON-           | 45720              |
| DUR.FAC.       | 1.15     | FROM            | DC                 |
| SPACING        | 24.0"    | JREF-           | 1SWP7175Z04        |

Deflection meets L/240 live and L/180 total load.



|          |          |                       |
|----------|----------|-----------------------|
| TC LL    | 40.0 PSF | REF R7175- 45802      |
| TC DL    | 7.0 PSF  | DATE 04/27/06         |
| BC DL    | 10.0 PSF | DRW CAUSR7175 0617047 |
| BC LL    | 0.0 PSF  | CA-ENG TSB/GWH        |
| TOT.LD.  | 57.0 PSF | SEQN- 45724           |
| DUR.FAC. | 1.15     | FROM DC               |
| SPACING  | 24.0"    | JREF- 1SWP7175Z04     |



The diagram illustrates the vertical alignment of a cable-stayed bridge. It shows a central pylon with multiple stay cables fanning out to support the bridge deck. The verticals are labeled with 'GABLE VERTICAL LENGTH TYP.' and 'SYM. C ABOUT L'. A table provides the plate size for different vertical lengths between chords.

| VERTICAL LENGTH BETWEEN CHORDS           | PLATE SIZE | IF PLATES OVERLAP* |
|------------------------------------------|------------|--------------------|
| LESS THAN 4' 0"                          | 1X4 OR 2X3 | 2X8                |
| GREATER THAN 4' 0", BUT LESS THAN 11' 6" | 2X4        | 2X8                |
| GREATER THAN 11' 6"                      | 2.5X4      | 2.5X8              |

\* REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.  
 • IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:

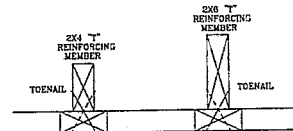
City of Portland  
 OCT 04 2006

| VERTICAL LENGTH<br>BETWEEN CHORDS           | PLATE<br>SIZE | IF PLATES<br>OVERLAP* |
|---------------------------------------------|---------------|-----------------------|
| LESS THAN 4' 0"                             | 1X4 OR 2X3    | 2X8                   |
| GREATER THAN 4' 0", BUT<br>LESS THAN 11' 6" | 2X4           | 2X8                   |
| GREATER THAN 11' 6"                         | 2.5X4         | 2.5X8                 |

⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK,  
SPICE, WEB AND HEEL PLATES.

• IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:  



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPACING, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL  
LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

| WIND SPEED<br>AND MRH | T REINF.<br>MR. SIZE | SBCCI | ASCE |
|-----------------------|----------------------|-------|------|
| 110 MPH               | 2x4                  | 10 %  | 10 % |
| 15 FT                 | 2x4                  | 40 %  | 50 % |
| 110 MPH               | 2x4                  | 10 %  | 10 % |
| 30 FT                 | 2x4                  | 40 %  | 50 % |
| 100 MPH               | 2x4                  | 10 %  | 10 % |
| 15 FT                 | 2x6                  | 30 %  | 50 % |
| 100 MPH               | 2x4                  | 10 %  | 10 % |
| 50 FT                 | 2x6                  | 10 %  | 40 % |
| 80 MPH                | 2x4                  | 20 %  | 10 % |
| 15 FT                 | 2x8                  | 20 %  | 40 % |
| 80 MPH                | 2x4                  | 10 %  | 10 % |
| 30 FT                 | 2x6                  | 30 %  | 50 % |
| 80 MPH                | 2x4                  | 10 %  | 20 % |
| 15 FT                 | 2x6                  | 10 %  | 30 % |
| 80 MPH                | 2x4                  | 20 %  | 30 % |
| 30 FT                 | 2x6                  | 20 %  | 40 % |
| 70 MPH                | 2x4                  | 0 %   | 20 % |
| 15 FT                 | 2x6                  | 0 %   | 20 % |
| 70 MPH                | 2x4                  | 0 %   | 20 % |
| 30 FT                 | 2x6                  | 10 %  | 20 % |

### EXAMPLE

ASCE WIND SPEED = 100 MPH  
MEAN ROOF HEIGHT = 30 FT  
GABLE VERTICAL = 24" O.C. SP #3  
" REINFORCING MEMBER SIZE = 2X4  
" BRACE INCREASE (FROM ABOVE) = 10% = 1.10  
(1) 2X4 " BRACE LENGTH = 6' 7"  
MAXIMUM " REINFORCED GABLE VERTICAL LENGTH  
1.10 x 6' 7" = 7' 3"

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN  
ATTACH EACH T REINFORCING MEMBER WITH                      Permit Number                       
HAND DELIVER TO:                     

10d COMMON (0.148" X 3.7" MIN) TOENAILS AT 4" O.C. PLUS  
(4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD

GUN DRIVEN NAILS:  
8d COMMON (0.131" X 2.6" MIN) TOENAILS AT 4" O.C. PLUS  
(4) TOENAILS IN TOP AND BOTTOM CHORD

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE CABLE DETAIL FOR ASCE  
OR SPEC WIND LOAD

ASCE 2-03 CABLE DETAIL DRAWINGS

A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103  
A11030EN1103, A10030EN1103, A08030EN1103, A07030EN1103

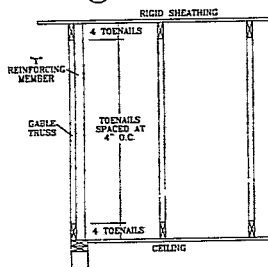
ASCE 7-98 GABLE DETAIL DRAWINGS

A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103  
A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103

ASCE 7-02 GABLE DETAIL DRAWINGS

A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405,  
A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI  
WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE  
VERTICAL LENGTH.



\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DORCHESTER DR., SUITE 200, MADISON, VA 53719) FOR TYPICAL TRUSS CONNECTIONS OF AMERICA, 6320 ENTERPRISE LN, MADISON, WI 53719 FOR TRUSS PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED END PLATES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

[illegible]

~~THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035~~

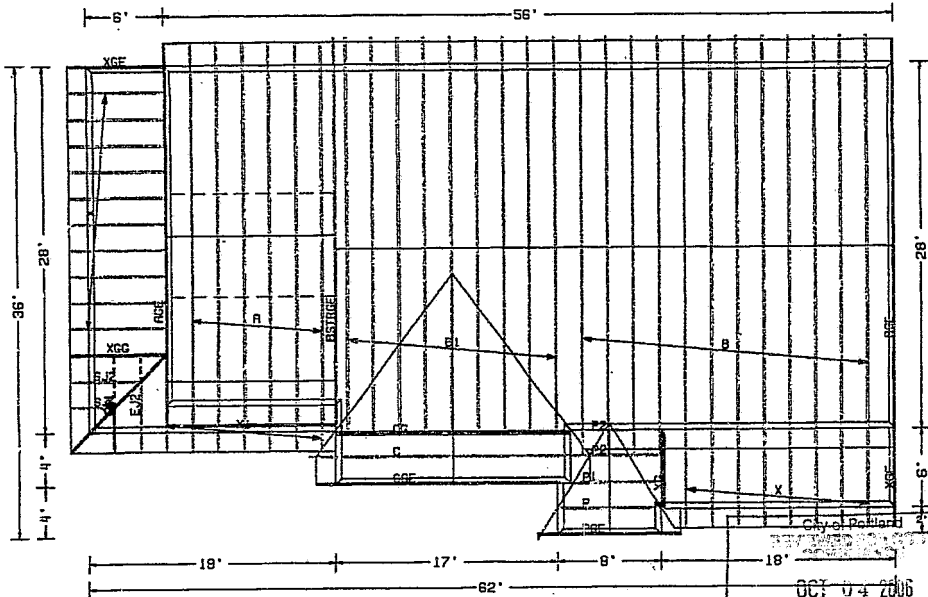


|                     |
|---------------------|
| MAX TOT. LD. 60 PSF |
| DUR. FAC. ANY       |
| MAX SPACING 24.0"   |

|      |              |
|------|--------------|
| REF  | LET-IN VERT  |
| DATE | 04/14/05     |
| DRWG | GBLLETIN0405 |
| -ENG | DIJ/KAB      |

|             |     |      |              |
|-------------|-----|------|--------------|
| TC LL       | PSF | REF  | CE WHALER    |
| TC DL       | PSF | DATE | 11/26/03     |
| PC DL       | PSF | DRWG | GBLBRSTC1103 |
| BC LL       | PSF | -ENG | SJP/KAR      |
| TOT. LD.    | PSF |      |              |
| DUR. FAC.   |     |      |              |
| MAX SPACING |     | 24"  |              |





Permit Number

Designed By: DAVE CORNFORTH  
 Description: SYLVAN HILL JOB  
 Location: LISBON STAIR  
 Job Customer: KEY WY CONSTRUCTION

JOB NO:  
 0306176

PAGE NO:  
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