

RECEIVED

MAY 18 1993

CONSTRUCTION PERMIT
APPLICATION

Applicant Completes Sections I, II, III (optional), IV, VI and VII

OFFICE OF INSPECTION

I. IDENTIFICATION

1. Proposed Work-site at: 64 HOLLY CREST DR
2. Name of Owner in Fee: EDWARD DEREZ
- Address 29 NAVARRA DR BRICK N.J. 08723
street municipality zip code
3. Ownership in Fee: Public _____ Private ☒
4. Principal Contractor: DESIGN CONSTRUCTION Tel. (908), 793-1463
- Address 18 SECOND AVE. ORDEY BEACH.
- License No. OR, if new home, Builder Reg. No. 016485 Exp. Date APR. 30-94
- Federal Emp. No. _____ Social Security No. _____
5. Architect or Engineer GEORGE K. HOPPE Tel. (908), 830-9067
- Address RT. 35 N. LAVALLETTE N.J.
6. Responsible Person GEORGE POLIZZANO Tel. (908), 793-1463
- In Charge of Work

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$ <u>261-</u>		
2. Electrical			
3. Plumbing	<u>125-</u>	<u>40.18</u>	<u>1.14</u>
4. Fire Protection	<u>143</u>		
5. Other			
6. Subtotal	\$ <u>546-</u>		
7. Less 20% for State Plan Review	<u>55-</u>		
8. Subtotal	\$		
9. DCA Training Fee	<u>46-</u>		
10. Subtotal	\$		
11. Cert. of Occupancy	<u>82-</u>		
12. Other			
13. TOTAL	\$ <u>729-</u>		

VI. BUILDING/SITE CHARACTERISTICS

		(office use only)
1. Number of Stories	<u>14</u>	
2. Height of Structure	<u>2234</u>	ft.
3. Area—Largest Floor	<u>2234</u>	sq. ft.
4. Building Area—All Floors	<u>2234</u>	sq. ft.
5. Volume of Structure	<u>24,000</u>	cu. ft.
6. Construction Classification	<u>5-B</u>	
7. Total Land Area Disturbed		sq. ft.
8. Flood Hazard Zone		
9. Base Flood Elevation		ft.
10. Wetlands yes _____ no _____		sq. ft.
11. Fire Grading		
12. Max. Live Load		
13. Max. Occupancy Load		

II. PROPOSED WORK

1. ☐ Minor Work (single trade)
2. ☐ Small Job (\$5,000 and no prior approvals)
3. ☒ New Building
4. ☐ Addition
5. ☐ Alteration
6. ☐ Fire Protection
7. ☒ Plumbing
8. ☒ Electrical
9. ☐ Asbestos Abatement
10. ☐ Demolition

Est. Cost

75,000

TOTAL COSTS

75,000

OPTIONAL (for office use only)

Plans Rec'd By	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Rejection	Re-viewer
<u>W</u>	<u>5/18/93</u>		<u>6/2/93</u>	<u>1</u>	<u>9/22/93</u>		<u>08</u>
		<u>6/3/93</u>	<u>6/4/93</u>	<u>5-2693</u>	<u>9/23/93</u>		<u>08</u>
<u>6/4/93</u>	<u>11</u>				<u>9/23/93</u>		<u>08</u>
<u>Eng</u>		<u>5/19/93</u>	<u>5/26/93</u>	<u>11</u>			

III. DO YOU WANT: (optional) ☐ Partial Releases ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/Dumbwaiters/Moving Walks
2. ☐ High Pressure Boilers
3. ☐ Pressure Vessels
4. ☐ Refrigeration Systems
5. ☐ Cross-Connections/Backflow
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL

1. ☐ Hotels (R-1)
2. ☐ Multi-Family (R-2)
3. ☐ Two-Family (R-3) BOCA
4. ☐ Two-Family (R-4) CABO
5. ☐ One-Family (R-3) BOCA
6. ☒ One-Family (R-4) CABO
- No of dwelling units: _____
- Before Construction _____
- After Construction 1
- Net gain or loss _____

B. NON-RESIDENTIAL

1. State Specific Use: _____
2. Use Group: _____
3. Change in Use Group. Indicate Former: _____

LDS BR 10105486

708

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☒ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)1.vii:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature Edward Heres Date 5-18-93

II. AGENT SECTION

(to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:32-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☐ Check if contractor.

Agent Name _____

Address _____

Telephone () _____

Signature _____ Date _____

OFFICE DATE RECEIVED: _____

VIII. PRIOR APPROVALS CHECKLIST (office use only)	LOCAL APPROVAL		COUNTY APPROVAL		REGIONAL APPROVAL		STATE APPROVAL	
	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date
☐ Planning Board								
☐ Zoning Board								
☐ Sewer Authority								
☐ Water Authority								
☐ Fire Department								
☐ Police Department								
☐ Health Department								
☐ Soil Conservation								
☐ N.J. Dept. of Community Affairs								
☐ N.J. Department of Transportation								
☐ N.J. Dept. of Environmental Protection								
☐ Utility Dig No.								
☒ Other <i>Spec</i>		<i>5/19/93</i>		<i>hours</i>				
☐								
☐								

COMMENTS

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only—optional)

Name of Code & Edition	Name of Code & Edition	Other
Building _____	Energy _____	_____
Electrical _____	Barrier Free _____	_____
Plumbing _____	Flood Hazard _____	_____
Fire Protection _____	As Built Elevation Cert. _____	_____
Mechanical _____	Other _____	_____

X CERTIFICATES ISSUED (office use only)

DATE EXPIRED

- | | | |
|--|-----------------|-----------------|
| ☐ Temporary Certificate of Occupancy | No. _____ | _____ |
| ☐ Temporary Certificate of Occupancy | No. _____ | _____ |
| ☐ Continued Certificate of Occupancy | No. <i>1162</i> | <i>10/15/93</i> |
| ☒ Certificate of Occupancy | No. _____ | _____ |
| ☐ Certificate of Approval | No. _____ | _____ |



CERTIFICATE

Date Issued 10-15-93
Control #
Permit # 1162-93

IDENTIFICATION

Block 203.29 Lot 23-26
Work Site Location 64 Hollycrest Dr.
Owner in Fee Edward Deresz
Address 29 Navarra Dr.
Brick, NJ
Tele. ()
Contractor Design Construction
18 Second Ave.
Ortley Beach, NJ
Lic. No. or Bldgs. Reg. No.
Federal Emp. No.
or Social Security No.

Home Warranty No. affidavit
Use Group R-3 1 hour
Maximum Live Load 40+
Description of Work/Use:

Single family dwelling

Type of Warranty Plan: [] State [] Private
Construction Classification
Maximum Occupancy Load

CERTIFICATE OF OCCUPANCY/APPROVAL

☒ CERTIFICATE OF OCCUPANCY

This serves notice that said building, structure, or equipment has been constructed or installed in accordance with the New Jersey Uniform Construction Code, and is approved for use and/or occupancy.

☐ CERTIFICATE OF APPROVAL

☐ CERTIFICATE OF CONTINUED OCCUPANCY

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ TEMPORARY CERTIFICATE OF OCCUPANCY

If this is a Temporary Certificate of Occupancy the following conditions must be met no later than 19 or the owner will be subject to a fine or order to vacate:

CONSTRUCTION OFFICIAL
Arthur J. Perry

Fee \$
Paid [] Check No.
Collected by:

TOWNSHIP OF BRICK



APPLICATION FOR CERTIFICATE

PERMIT NO. 1162-93
DATE ISSUED 6-8-93
Block 203.39 Lot 23/26
Subdivision _____
Notice No. _____

IDENTIFICATION

OWNER:

Name EDWARD DERESZ
Address 64 HOLLYCREST DR.
Town/State/Zip BRICK, N.J. 08723

CONSTRUCTION LOCATION:

Address 64 Hollycrest Dr.

ACTION

- ☒ CERTIFICATE OF OCCUPANCY ☐ CERTIFICATE OF APPROVAL
☐ CERTIFICATE OF CONTINUED OCCUPANCY ☐ TEMPORARY CERTIFICATE OF OCCUPANCY

USE GROUP: _____ Previous _____ Current _____

☒ FINAL COST OF CONSTRUCTION: \$ 120,000.-
(Include value of any new structure, all on-site improvements, built in furnishings and fixtures and all integral equipment exclusive of process or manufacturing equipment.)

A set of "As-Built" or amended drawings is required if the building or structure deviates from the approved plans filed with the construction permit. Use space below to describe any deviations from approved plans:

If you are requesting a Temporary Certificate of Occupancy, please explain why in the space below.

I hereby attest, that to the best of my knowledge, all work has been completed in accordance with the approved plans, permit and Regulations. Incomplete items listed on a Temporary Certificate of Occupancy will be completed by the date on the Certificate.

SIGNED: Edward Deresz
☐ Owner
☐ Agent

OWNER/AGENT



CONSTRUCTION PERMIT

Date Issued 6-8-93
Control #
Permit # 1162-93

IDENTIFICATION Block 203.29 Lot 23-26
Work Site Location 64 HOLLYCREST DR Contractor Design Conctr
Address _____
Owner in Fee Edward Denny
Address 39 N. W. 11th St
Brick, FL
Tele. (____) _____
Tele. (____) _____
Lic. No. or Bldrs. Reg. No. _____ Exp. Date 1162**
Federal Emp. No. _____ LOT _____
or Social Security No. 2326 #

is hereby granted permission to perform the following work:

☒ BUILDING ☒ PLUMBING ☐ OTHER _____
☐ ELECTRICAL ☒ FIRE PROTECTION

DESCRIPTION OF WORK:

Single fam. dwelling

2,234.
29,000.

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$ 75,000.

[Signature]
CONSTRUCTION OFFICIAL

U.C.C. Form F-170A

INITIALS		
PAYMENTS (Office Use Only) NG		1.5.00
Building <u>261</u> ETR		1.5.00
Plumbing <u>25</u> DECK		5.00
Electrical <u>DIAN</u> ETR		5.00
Fire Protection <u>145</u> ETR		6.00
Other <u>Deck 15</u> ETR		2.00
Other <u>Drain 55</u> TOTAL		9.00
DCA Training Fee <u>145</u> ETR		9.00
Cert. of Occ. <u>82</u> CHANGE		0.00
Other <u>6/00/03</u> NO. 5 00174005		0.43
Total		
Check No. <u>116</u>		
Cash		
Collected By:		



**ELECTRICAL
SUBCODE**
TECHNICAL SECTION



Date Received
Date Issued
Control #
Permit #

JUN 7 93 037033

FEE (Office Use Only)

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 203.25 Lot 23.24, 25 & 26
Work Site Location 64 Holly Court Davis
Owner in Fee EDWARD DEBESZ
Address 29 NIMMIA DRIVE
BRICK, N.S. 08723
Tel. [REDACTED]
Contractor JOSEPH ELECTRIC COMPANY
Address 2947 HOLLYS AVENUE
BRICK, N.S. 08723
Tel. (908) 920-7257
Lic. NEE9042
Federal Emp. No. [REDACTED] or Social Security No. [REDACTED]

B. ELECTRICAL CHARACTERISTICS

Use Group Present 1 Proposed 1
☐ Pole/Pad # [REDACTED] ☐ Temporary ☐ Other 1
Building Occupied as RESIDENCE Utility Co. [REDACTED]
Est. Cost of Elec. Work \$ \$5000.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW: ☐ No Plans Required ☐ Plans Required
Joint Plan Review Required: ☐ No ☐ Yes
☐ Bldg. ☐ Plumb. ☐ Fire ☐ Elevator
☐ Elec. Plans Approved
Date: [REDACTED]
Approved by: [REDACTED]
SUBCODE APPROVAL
Date: 6/12/93
Approved By: [REDACTED]
INSPECTIONS
Type: Rough Final Failure Approval Initial
Dates (Month/Day) 6-25-93 7-28-93
Temp. Cut-in-Card Date Issued [REDACTED]
Final Cut-in-Card Date Issued [REDACTED]

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

☒ Licensed Electrical Contractor ☐ Exempt Applicant

Signature—Contractor Seal

D. TECHNICAL SITE DATA

NO.	SIZE	ITEM
54		Fixtures (1)
69		Receptacles (2)
51		Switches (3)
174		Total 1 + 2 + 3
	Kw	Range
	Kw	Oven(s)
	Kw	Surface Unit
1	hp	Dishwasher
	hp	Garbage Disposal
1	Kw	Dryer
	Kw	A/C Unit
4		Burglar Alarms
		Intercoms Panels
		Smoke Detectors
	hp	Whirlpool/spa
		Pool Bonding
	hp	Pool Filter Motor
		Pool Lights
	Kw	Water Heater(s)
	Kw	Central heat:
		oil, gas or elec.
	Kw	Baseboard Heat Units
		Thermostats
	hp	Heat Pump
	hp	Pump(s)
		Amp Motor Control Center/Sub Panels
		Signs
		Light Standards
2	hp	Motors—Fractional H.P.
13	hp	Motors—All Others
	Kw	Transformers
	Kw	Generators
1		Amp Service Entrance
		Other

Collected by: [REDACTED]
Paid ☐ Check # 114 Administrative Surcharge \$ [REDACTED]
Minimum Fee \$ [REDACTED]
DCA Training Fee \$ [REDACTED]
TOTAL FEE \$ 111.-

U.C.C. Form F-1208

1 White = Inspector Copy 2 Canary = Office Copy
3 Pink = Office Copy 4 Gold = Applicant Copy



FIRE PROTECTION SUBCODE TECHNICAL SECTION



Date Received
Date Issued **6-8-93**
Control #
Permit # **1162-93**

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block **203.29** Lot **23-2C**

Work Site Location **601 Hollycrest Dr.**

Owner in Fee **Edward Derez**

Address **29 NAVAEEA DR**

BRICK HT.

Tele. () _____

Contractor **Design Cont.**

Address **18 Second Ave**

ORILEY BCH

Tele. () **793-1463**

Lic. No. **016481**

Federal Emp. No. _____ or Social Security No. _____

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present _____ Proposed _____

Const. Class. Present _____ Proposed _____

Heating Systems () New () Existing

Type: () Gas () Oil () Electrical () Solar

() Other **Electricity from Conductorless air**

Location: _____

Total Est. Cost of Fire Prot. Work \$ _____ () Other _____

JOB SUMMARY (Office Use Only)

PLAN REVIEW:

() No Plans Required

Joint Plan Review Required:

() Bldg. () Plumb.

() Elec. () Elevator

() Fire Plans Approved

Date: **6/14/93**

Approved by: _____

SUBCODE APPROVAL:

() CO () CCO () GA

Date: **6/23/93**

Approved by: _____

INSPECTIONS:

Type:

Suppression Test

Fire Alarm Test

Smoke Test

Mechanical

TCO

Other

Other

Other

Dates (Month/Day)

Failure

Failure

Approval

Initial

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

SIGNATURE _____

D. TECHNICAL SITE DATA

Description of Work

Water Supply Source

Method of Valve Supervision

Local Alarm Supervision

Central Supervision

Proprietary Supervision

Flammable Liquid Storage Tanks

Combustible Liquid Storage Tanks

L.P.G. Storage Tanks

L.N.G. Storage Tanks

Number

Wet Sprinkler Heads

Dry Sprinkler Heads

TOTAL

Smoke Detectors **Per DC 5-**

Heat Detectors **Per DC 5-**

TOTAL

Stand Pipes

Kitchen Hood Exhaust Systems

Pre-Engineered Systems

CO₂ Suppression

Halon Suppression

Foam Suppression

Dry Chemical

Wet Chemical

Gas or Oil Fired Appliance

OTHER

FEE (Office Use Only)

U.C.C. Form F-140B

1 White = Inspector Copy
2 Canary = Office Copy
3 Pink = Office Copy
4 Gold = Applicant Copy



**PLUMBING
SUBCODE
TECHNICAL SECTION**



Date Received 6-8-93
Date Issued 1/62-93
Control #
Permit #

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 203.29 Lot 23-26
Work Site Location 44 Holly Crest Dr. Belk

Owner in Fee ED DERESE
Address 29 NAVARRA DR. BELK

Tele. [REDACTED]

Contractor EPACK O. SMITH

Address 174 SOLEDAD RD. BELK

BRICK N.S. 08724

Tele. (708) 899-5941

Lic. No. 8242

Federal Emp. No. [REDACTED] or Social Security No. [REDACTED]

B. PLUMBING CHARACTERISTICS

Use Group Present 4" SDR Proposed X
Building Sewer Size 3/4"
Water Service Size 1/2"
Estimated Cost of Plumbing Work \$ 6000

JOB SUMMARY (Office Use Only)

PLAN REVIEW:		INSPECTIONS:		Dates (Month/Day)	
	Type:	Failure	Failure	Approval	Initial
☐ No Plans Required	Slab				
☐ Joint Plan Review Required:	Rough			7/14/93	ON
☐ Bldg. ☐ Elec. ☐ Fire	Water				
☐ Plumb. Plans Approved	Sewer				
Date: <u>5-26-93</u>	Fixtures			7/14/93	ON
Approved by: <u>[Signature]</u>	Gas Equipment				
	Gas Final				
	Solar				
	TCO				
SUBCODE APPROVAL:					
☒ CO ☐ CCO ☐ CA					
Approved by: <u>[Signature]</u>					
Date: <u>7-28-93</u>					

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

[Signature]
Signature-Contractor Seal

☒ Licensed Plumbing Contractor ☐ Exempt Applicant

D. TECHNICAL SITE DATA (List all fixtures.)

NO.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
2	Water Closet	10-
1	Urinal/Bidet	5-
2	Bath Tub	10-
1	Lavatory	5-
1	Shower	5-
3	Floor Drain	15-
1	Sink	5-
1	Dishwasher	5-
1	Drinking Fountain	5-
2	Washing Machine	10-
6	Hose Bibb	15-
1	Gas Piping	5-
1	Fuel Oil Piping	15-
1	Water Heater	5-
1	Steam-Boiler Furnace	15-
	Hot Water Boiler	
	Sewer Pump	
	Interceptor/Separator	
	Backflow Preventer	
	Greasetrapp	
1	Water Cooled A/C	15-
1	or Refrigeration Unit	
1	Sewer Connection	
1	Water Service Connection	
1	Gas Service Connection	
1	Active Solar System	10-
	Other	

Administrative Surcharge \$
Paid ☐ Check # Minimum Fee \$
Collected by: TOTAL \$ 125-

ELEVATION CERTIFICATE
FEDERAL EMERGENCY MANAGEMENT AGENCY
NATIONAL FLOOD INSURANCE PROGRAM

O.M.B. No 3067-0077
Expires May 31, 1993

ATTENTION: Use of this certificate does not provide a waiver of the flood insurance purchase requirement. This form is used only to provide elevation information necessary to ensure compliance with applicable community floodplain management ordinances, to determine the proper insurance premium rate, and/or to support a request for a Letter of Map Amendment or Revision (LOMA or LOMR).
Instructions for completing this form can be found on the following pages.

SECTION A PROPERTY INFORMATION

BUILDING OWNER'S NAME Edward Deresz	FOR INSURANCE COMPANY USE
STREET ADDRESS (Including Apt., Unit, Suite and/or Bldg. Number) OR P.O. ROUTE AND BOX NUMBER Hollycrest Drive (vacant lot)	POLICY NUMBER
OTHER DESCRIPTION (Lot and Block Numbers, etc.) Lots 23-26 Block 203.29	COMPANY NAIC NUMBER
CITY Brick Township	STATE N.J.
Ocean County	ZIP CODE 08723

SECTION B FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

Provide the following from the proper FIRM (See Instructions):

1. COMMUNITY NUMBER 345285	2. PANEL NUMBER 0007	3. SUFFIX D	4. DATE OF FIRM INDEX July 15, 1992	5. FIRM ZONE A-5	6. BASE FLOOD ELEVATION (in AO Zones, use depth) 6 ft.
--------------------------------------	--------------------------------	-----------------------	---	----------------------------	---

7. Indicate the elevation datum system used on the FIRM for Base Flood Elevations (BFE): ☒ NGVD '29 ☐ Other (describe on back)
8. For Zones A or V, where no BFE is provided on the FIRM, and the community has established a BFE for this building site, indicate the community's BFE: feet NGVD (or other FIRM datum—see Section B, Item 7).

SECTION C BUILDING ELEVATION INFORMATION

1. Using the Elevation Certificate Instructions, indicate the diagram number from the diagrams found on Pages 5 and 6 that best describes the subject building's reference level _____.
- 2(a). FIRM Zones A1-A30, AE, AH, and A (with BFE). The top of the reference level floor from the selected diagram is at an elevation of feet NGVD (or other FIRM datum—see Section B, Item 7).
- (b). FIRM Zones V1-V30, VE, and V (with BFE). The bottom of the lowest horizontal structural member of the reference level from the selected diagram, is at an elevation of feet NGVD (or other FIRM datum—see Section B, Item 7).
- (c). FIRM Zone A (without BFE). The floor used as the reference level from the selected diagram is feet above ☐ or below ☐ (check one) the highest grade adjacent to the building.
- (d). FIRM Zone AO. The floor used as the reference level from the selected diagram is feet above ☐ or below ☐ (check one) the highest grade adjacent to the building. If no flood depth number is available, is the building's lowest floor (reference level) elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown
3. Indicate the elevation datum system used in determining the above reference level elevations: ☒ NGVD '29 ☐ Other (describe under Comments on Page 2). (NOTE: If the elevation datum used in measuring the elevations is different than that used on the FIRM [see Section B, Item 7], then convert the elevations to the datum system used on the FIRM and show the conversion equation under Comments on Page 2.)
4. Elevation reference mark used appears on FIRM: ☐ Yes ☒ No (See Instructions on Page 4) Local Control
5. The reference level elevation is based on: ☐ actual construction ☐ construction drawings (Vacant Lot)
(NOTE: Use of construction drawings is only valid if the building does not yet have the reference level floor in place, in which case this certificate will only be valid for the building during the course of construction. A post-construction Elevation Certificate will be required once construction is complete.)
6. The elevation of the lowest grade immediately adjacent to the building is: feet NGVD (or other FIRM datum—see Section B, Item 7).
7.3 Avg. Lot Elevation

SECTION D COMMUNITY INFORMATION

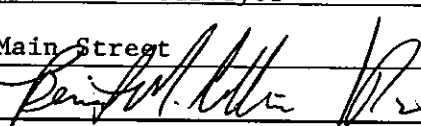
1. If the community official responsible for verifying building elevations specifies that the reference level indicated in Section C, Item 1 is not the "lowest floor" as defined in the community's floodplain management ordinance, the elevation of the building's "lowest floor" as defined by the ordinance is: feet NGVD (or other FIRM datum—see Section B, Item 7).
2. Date of the start of construction or substantial improvement 5-18-93

SECTION E CERTIFICATION

This certification is to be signed by a land surveyor, engineer, or architect who is authorized by state or local law to certify elevation information when the elevation information for Zones A1-A30, AE, AH, A (with BFE), V1-V30, VE, and V (with BFE) is required. Community officials who are authorized by local law or ordinance to provide floodplain management information, may also sign the certification. In the case of Zones AO and A (without a FEMA or community issued BFE), a building official, a property owner, or an owner's representative may also sign the certification.

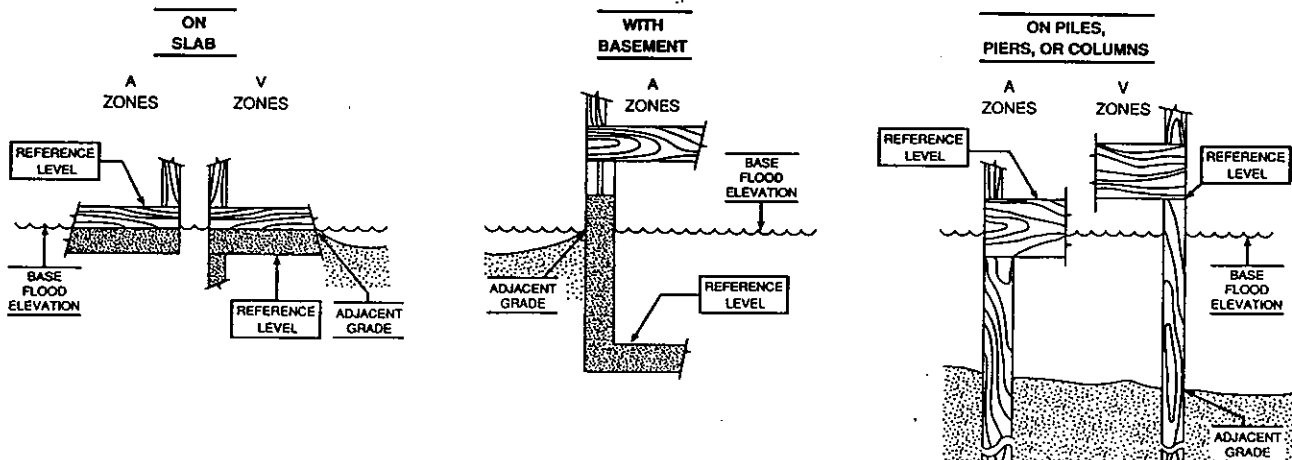
Reference level diagrams 6, 7 and 8 - Distinguishing Features--If the certifier is unable to certify to breakaway/non-breakaway wall, enclosure size, location of servicing equipment, area use, wall openings, or unfinished area Feature(s), then list the Feature(s) not included in the certification under Comments below. The diagram number, Section C, Item 1, must still be entered.

*I certify that the information in Sections B and C on this certificate represents my best efforts to interpret the data available.
I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

CERTIFIER'S NAME <u>Bernard M. Collins</u> TITLE <u>Licensed Land Surveyor</u>	LICENSE NUMBER (or Affix Seal) <u>29181</u> COMPANY NAME <u>Delco Land Surveying Corp.</u>
ADDRESS <u>509 Main Street</u>	CITY <u>Toms River</u>
SIGNATURE 	STATE <u>N.J.</u> ZIP <u>08754</u>
DATE <u>4/8/93</u>	
PHONE <u>908-341-4200</u>	

Copies should be made of this Certificate for: 1) community official, 2) insurance agent/company, and 3) building owner.

COMMENTS: _____



The diagrams above illustrate the points at which the elevations should be measured in A Zones and V Zones.

Elevations for all A Zones should be measured at the top of the reference level floor.

Elevations for all V Zones should be measured at the bottom of the lowest horizontal structural member.

	SHOWN	ACCEPTED	DEFICIENT	N/A	NOT SHOWN
15. LOCATION OF FLOODWAY BOUNDARY/HAZARD AREA					
16. FRESH WATER WETLANDS				✓	
17. PARKING AREAS	✓				
18. FACILITY & CONNECTIONS: WATER/SEWER/GAS/ELEC.	✓				
19. PLANTINGS, SEEDLINGS, SCREENINGS, FENCES, SIGNS	✓				
20. STREETS	✓				
21. CURBING				✓	
22. DESCRIPTION OF ALTERATIONS/REL. OF WATERCOURSE				✓	
23. PRIOR APPR: ARMY CORP./D.E.P./WETLANDS, ETC.				✓	
24. DAM SAFETY				✓	
25. SOIL CONSERVATION SERVICE				✓	
26. PLANNING BOARD				✓	

PLOT PLAN REVIEW	DATE	APPROVED	REJECTED
SIGNATURE <i>MSS</i>	5/19/93	5/26/93	✓
REVISED			
REVISED			
REVISED			
FIELD CHECK			
REVISED			
REVISED			
REVISED			
MUNICIPAL ENGINEER			
REVISED			
REVISED			
REVISED			

called
5-20-93

PLOT PLAN REVIEW CHECK LIST

TOWNSHIP OF BRICK

BLOCK: 203.29 LOT: 23/26 DATE RECEIVED: 5-18-93

ADDRESS: DERESZ

APPLICANT: Ed Deresz PHONE: [REDACTED]

CONTRACTOR: Design Const. PHONE:

ADDRESS: 64 Hollycrest Dr SUBDIVISION:

TYPE OF WORK: Dwelling ZONING APPROVAL:

REVIEW: FLOOD ZONE IDENTIFIED BY FIRM A-5 ELEV. 6

PANEL # 0007 MAP# DATED: 4-8-93

FEMA LETTER RECEIVED: ☒ YES ☐ NO

	SHOWN	ACCEPTED	DEFICIENT	N/A
1. SITE PLAN &/OR SURVEY SIGNED & SEALED	☒	☒	☒	☐
2. DRAW TO A SCALE OF NOT LESS THAN 1"=100'	☒	☒	☒	☐
3. EXISTING ELEVATIONS (NGVD IN FLOOD ZONES)	☒	☒	☒	not ref. on plans
4. SIDE PROPERTY LINES & DWELLING & PROP. CORNERS	☒	☒	☒	☐
5. STREET GUTTER, TOP CURB & CENTER LINE ELEV.	☒	☒	☒	☐
6. CONTOURS; 1' INCREMENTS/IF ELEV. FLUCTUATES 2'	☒	☒	☒	☐
7. ADJACENT DWELLING CORNERS	☒	☒	☒	☐
8. PROPOSED GRADING	☒	☒	☒	@ sides (letting walls)
9. GARAGE/1ST FLOOR/CRAWL SPACE/BASEMENT ELEV.	☒	☒	☒	not shown
10. LOT GRADING/FILLING & FINAL ELEVATION	☒	☒	☒	@ sides
11. METHOD OF DRAINING	☒	☒	☒	@ sides
12. FLOOD OPENINGS SIZED & PLACED	☒	☒	☒	not shown (crawl)
13. DRIVEWAY WIDTH/TYPE & DRAINAGE	☒	☒	☒	not as per imp. spec.
14. DIMENSIONS/ACREAGE OF PARCEL IN QUESTION	☒	☒	☒	☐

920-1168

ITEM	HEATING	COOLING	HEATING FACTOR	COOLING FACTOR	AREA	HEATING BTU/HR	COOLING BTU/HR	AREA	HEATING BTU/HR	COOLING BTU/HR	AREA	HEATING BTU/HR	COOLING BTU/HR
WINDOWS - TRANSMISSION	46	38	69	81	92	104	115	127	13	17	23	29	35
Single Point Glass	46	38	69	81	92	104	115	127	13	17	23	29	35
Double Point or Glass Block	24	20	34	43	48	54	60	66	6	9	12	15	18
WALLS & PARTITIONS	12	15	18	21	24	27	30	33	3	5	6	7	8
No Insulation	12	15	18	21	24	27	30	33	3	5	6	7	8
1 inch Insulation	10	12	15	17	20	22	25	27	3	4	5	6	7
2 inch Insulation	6	7	9	11	12	13	15	16	2	3	3	4	4
3 inch Insulation	4	5	6	7	8	9	10	11	1	2	2	3	3
4 inch Insulation	3	4	5	6	7	8	9	10	1	1	2	2	3
5 inch Insulation	2	3	4	5	6	7	8	9	1	1	1	2	2
6 inch Insulation	1	2	3	4	5	6	7	8	1	1	1	1	1
Floors & Ceilings	12	16	19	23	26	29	33	35	10	19	21	22	24
No Insulation	12	16	19	23	26	29	33	35	10	19	21	22	24
1 inch Insulation	4	5	6	7	8	9	10	11	5	5	6	7	7
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Roof	9	11	13	16	18	20	22	24	14	15	16	18	20
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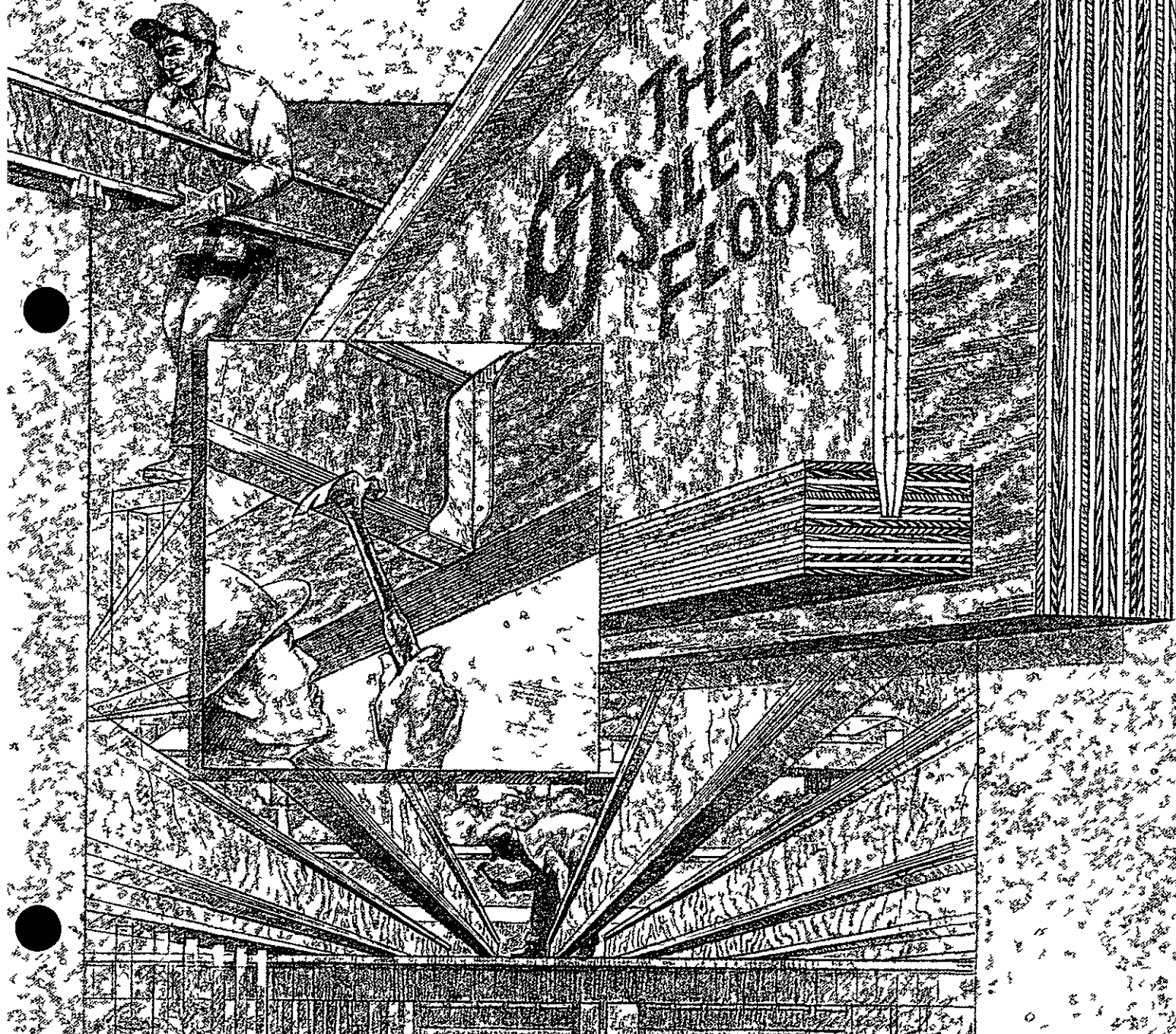
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TRUS JOIST CORPORATION

a division of TJ International

RESIDENTIAL PRODUCTS REFERENCE GUIDE



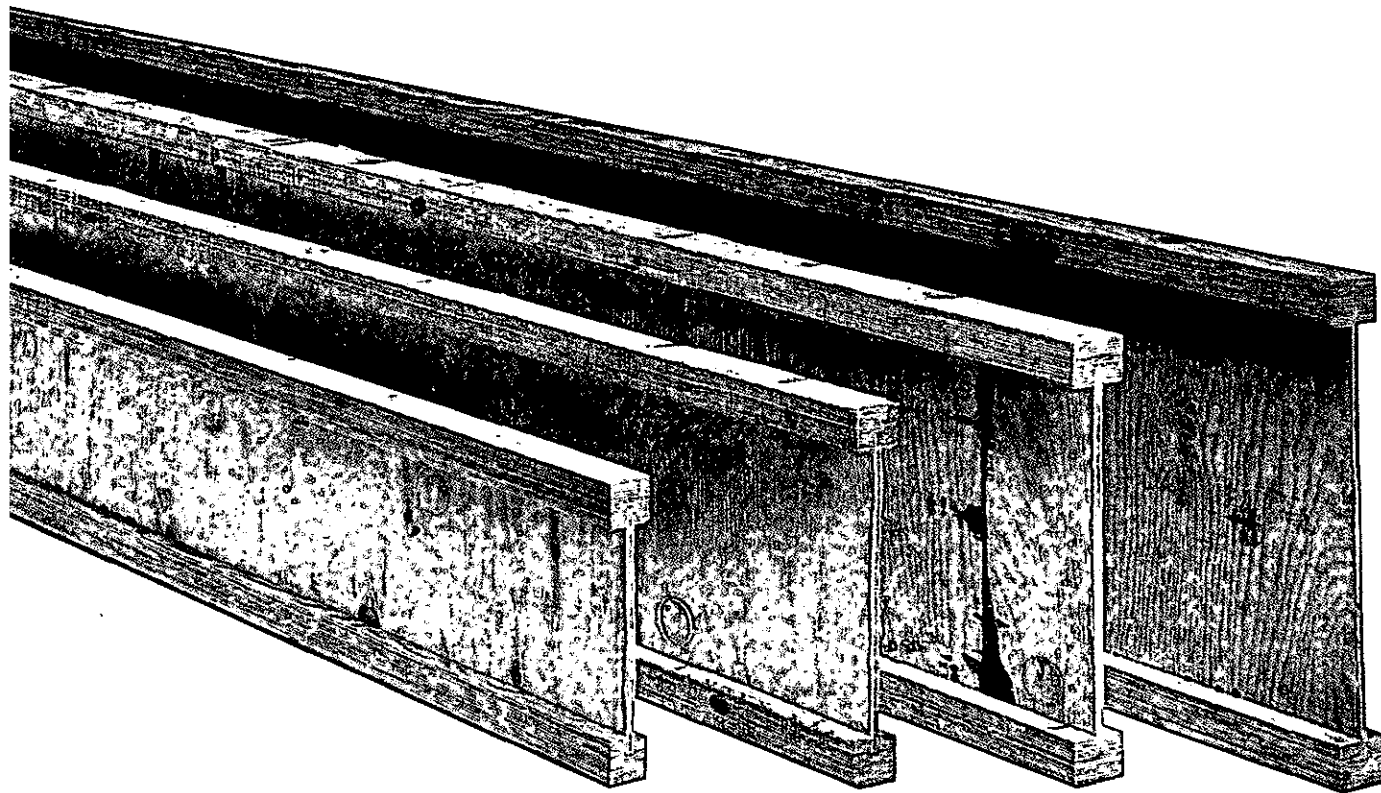
THE RESIDENTIAL TJI® JOIST

TJI® joists are the essential ingredient to constructing today's highest quality floors and roofs with the greatest of ease. Lightweight, long lengths, and the unique I-configuration make for fast, efficient construction. Precision-engineered design is the key to stiff, silent floors.

Joists in lengths to 60' speed installation by eliminating laps over beams or walls, and, since a TJI® joist is only

about half the weight of an ordinary joist, a typical floor or roof can be put in place in a fraction of the time. The I-shape makes nailing to the plate much easier, too.

TJI® joists are available from Trus Joist stocking lumber dealers throughout the United States and Canada in four depths, 9½", 11⅞", 14", and 16".



9½" TJI®/25 Joist

11⅞" TJI®/25 Joist

14" TJI®/35 Joist

16" TJI®/35 Joist

CODE EVALUATIONS: FHA 689, NER 119.

NOTE: NER Evaluation includes BOCA, ICBO and SBCCI.

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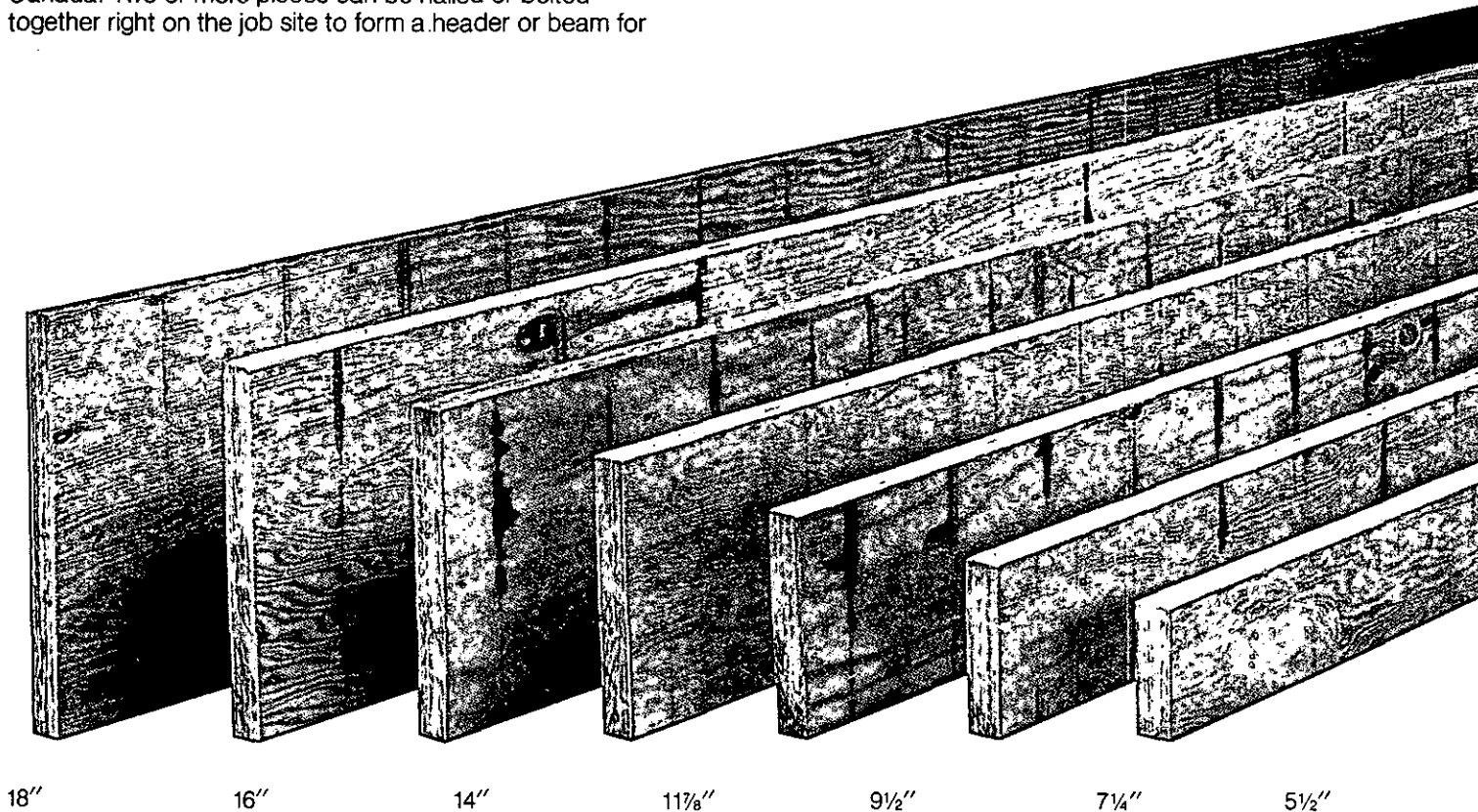
MICRO=LAM® L.V.L. HEADERS & BEAMS

High strength, consistent dimensions, and exceptional workability make MICRO=LAM® laminated veneer lumber (L.V.L.) the perfect material for almost every header and beam application in residential construction.

MICRO=LAM® L.V.L. is available in 1¾" thicknesses and seven depths from 5½" to 18" and in lengths to 60' from Trus Joist stocking dealers throughout the United States and Canada. Two or more pieces can be nailed or bolted together right on the job site to form a header or beam for

almost any load condition found in residential construction. Two 1¾" thick pieces match conventional 2x4 wall framing to eliminate shimming.

MICRO=LAM® L.V.L.'s unique manufacturing process eliminates many of the problems caused by twisting, shrinking, splitting, and checking, and thus reduces material waste.



CODE EVALUATIONS: NER 119, NER 126, FHA 925.

NOTE: NER evaluation includes BOCA, ICBO, and SBCCI.



TRUS JOIST CORPORATION

a division of TJ International

Quality Guarantee

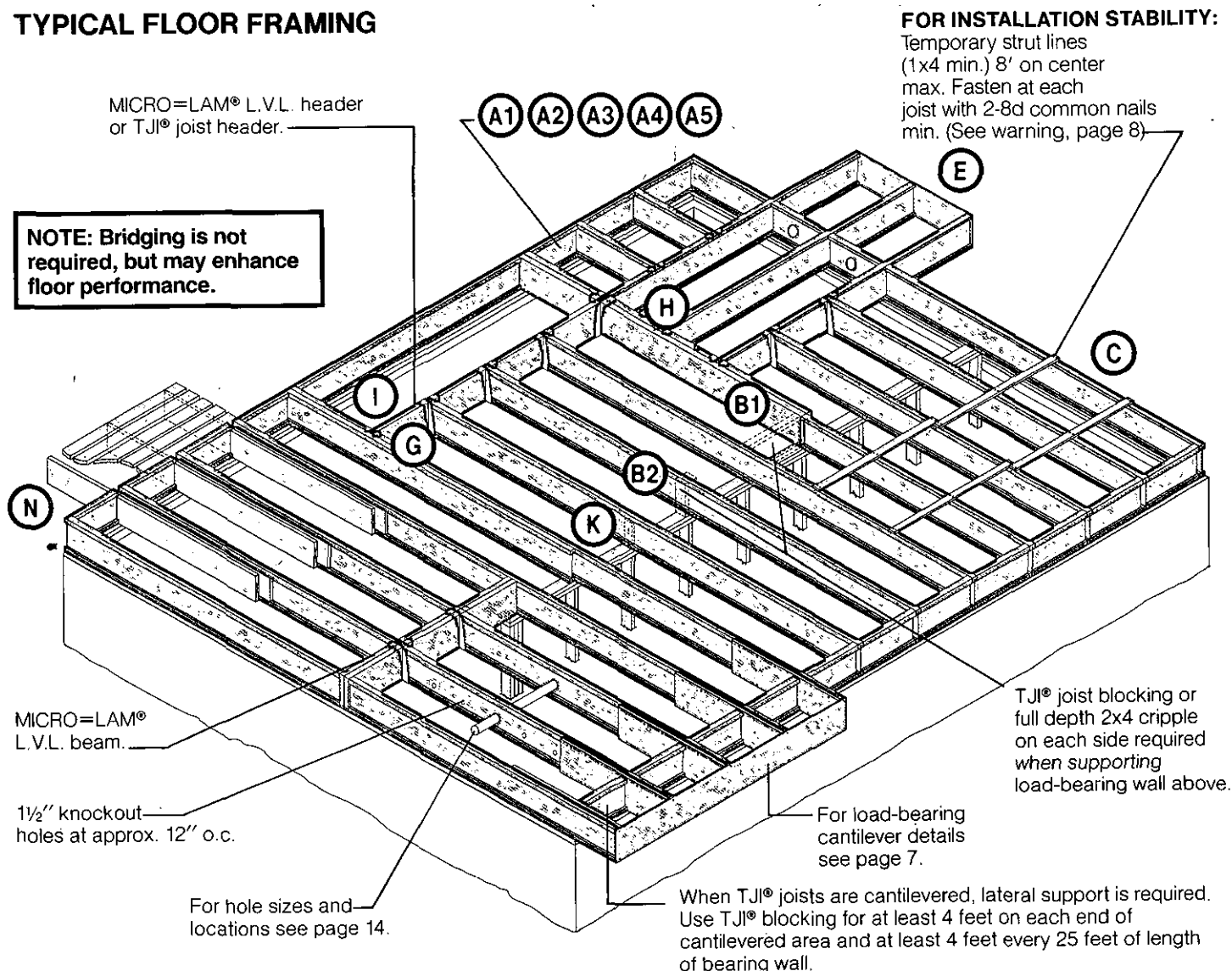
TRUS JOIST CORPORATION warrants its structural products **Residential TJI® Joists and MICRO=LAM® L.V.L. Headers** to be free from manufacturing errors or defects in workmanship and material. These products, correctly installed and used, are guaranteed to perform to our specifications for:

The Normal and Expected Life of Your Home

This guarantee is backed by the full resources of Trus Joist Corporation and by underwritten product liability insurance.

TJI® JOIST FLOOR DETAILS & SPAN CHARTS

TYPICAL FLOOR FRAMING



RESIDENTIAL FLOOR SPAN CHARTS

MINIMUM CRITERIA PER CODE

o.c. spacing	JOIST DEPTH			
	9 1/2"	11 7/8"	14"	16"
12"	18'-7"	22'-2"	24'-3"	30'-1"
16"	16'-11"	20'-2"	24'-8"	27'-4"
19.2"	14'-9"	18'-11"	23'-2"	25'-8"
24"	14'-9"	17'-6"	20'-3"	21'-10"

NOTE: Based on minimum code deflection criteria of L/360 at live load. For stiffer floors, please see "Truss Joist Recommended Span" table. See page 11 for "A Word About Floor Performance."

GENERAL NOTES:

- Span charts based on residential floor load of 40 PSF live load and 10 PSF dead load.
- Span charts assume composite action with single layer of glue-nailed plywood decking for deflection only. **Spans shall be reduced 5" where sheathing panels are nailed only.**
- Spans are based on clear distance between supports.

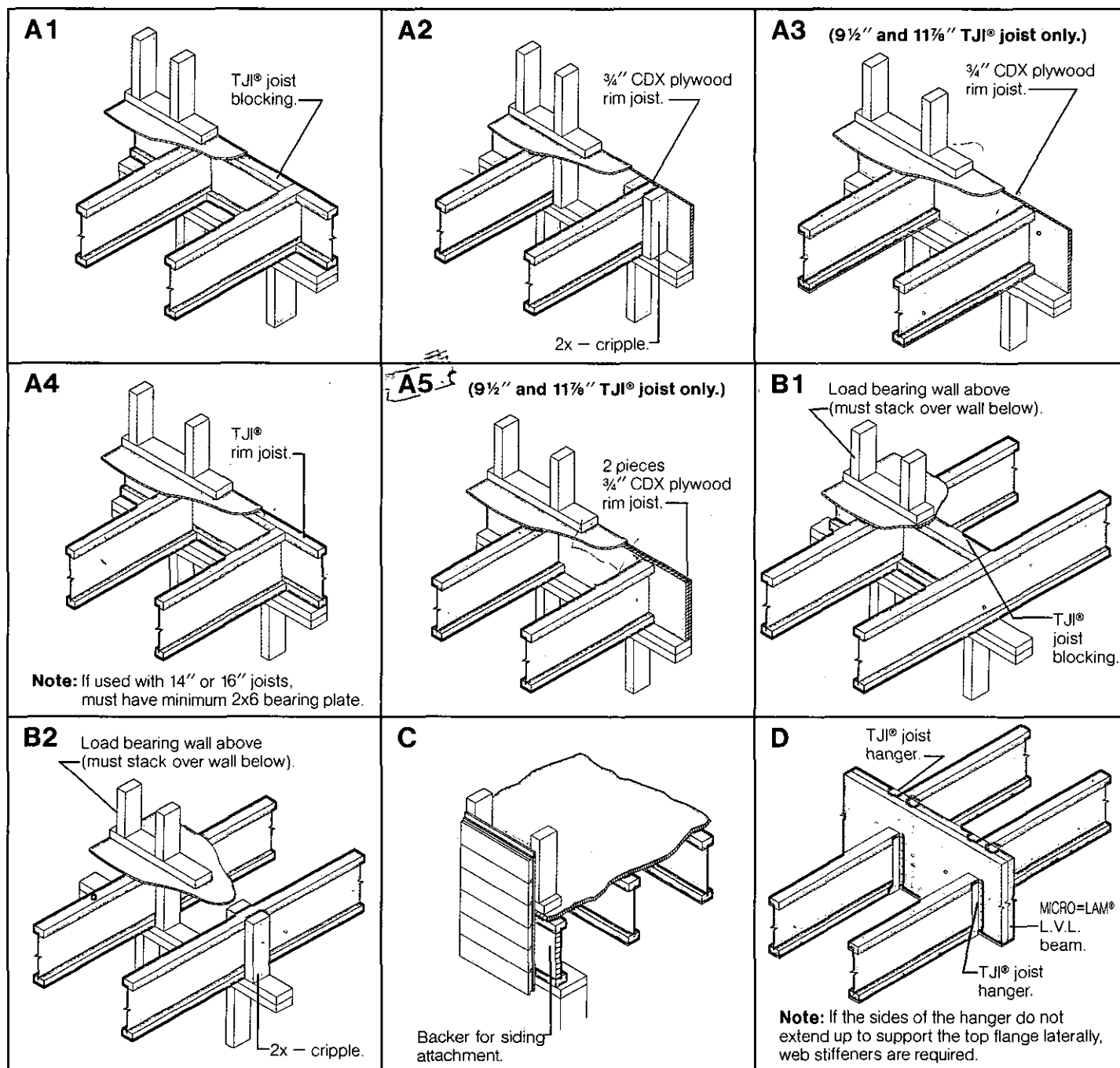
TRUSS JOIST RECOMMENDED SPANS

o.c. spacing	JOIST DEPTH			
	9 1/2"	11 7/8"	14"	16"
12"	16'-10"	20'-0"	24'-6"	27'-1"
16"	15'-4"	18'-2"	22'-3"	24'-8"
19.2"	14'-5"	17'-1"	20'-11"	23'-2"
24"	13'-4"	15'-10"	19'-4"	21'-5"

NOTE: Based on L/480 live load deflection with the appropriate APA span rated sheathing.

- Web stiffeners (see detail "K", page 6) are required at intermediate supports where joists are continuous span, bearing width is less than 5 1/4", and either span is greater than:
 - 13'-8": for 9 1/2" and 11 7/8" TJI® joists @ 24" o.c.
 - 17'-2": for 11 7/8" TJI® joists @ 19.2" o.c.
 - 19'-2": for 14" and 16" TJI® joists @ 24" o.c.
 - 24'-0": for 16" TJI® joists @ 19.2" o.c.

TJI® JOIST FLOOR DETAILS



GENERAL NOTES

MINIMUM BEARING LENGTH

1 3/4" minimum bearing required at joist ends;
3 1/2" minimum bearing at intermediate supports.

RIM JOISTS OR BLOCKING

1. For single story applications and second floors of two story applications, use detail A1, A2, A3, A4, or A5.
2. For main floor rim of two story applications, use detail A1, A2, A4 or A5.
3. Assumes 1000 PLF vertical load transfer for each layer of 3/4" CDX plywood rim joist.
4. Assumes 2000 PLF vertical load transfer for each TJI® joist blocking panel or rim joist.
5. When plywood rim is used, bracing

complying with code shall be carried to the foundation or TJI® joist solid blocking used for a minimum of 4' at each end and at least 4' every 25' of length of bearing wall.

6. 2x — cripples for details A2 and B2 must be 1/16" longer than depth of joist. Web stiffeners may also be required per Note 4, page 4.
7. Other 3/4" APA 48/24 rated sheathing may be used for rim joist in lieu of 3/4" CDX plywood.

NAILING REQUIREMENTS

1. Nail joists at bearings with 2-8d common nails (1 each side), 1 1/2" minimum from end to avoid splitting.
2. Nail TJI® joist blocking or rim to bearing plate with 8d nails at 6" on center. When

used for shear transfer, nail to bearing plate with same nailing as the plywood shear schedule.

3. Nail TJI® rim joist, 3/4" CDX plywood rim, or plywood closure to TJI® joist with 2-8d common nails, one each at top and bottom flange. With 14" and 16" TJI® rim joists, use 16d nails.

FILLER AND BACKER BLOCKS

9 1/2" and 11 5/8" TJI® joist:

Filler block — 2x6

Backer block — 3/4" plywood

14" and 16" TJI® joist:

Filler block — 2x8 + 1/2" plywood

Backer block — 2 pieces 1/2" plywood

TJI® JOIST HANGERS

See page 15.

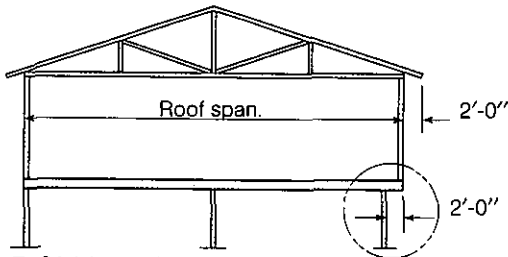
See page 6 for additional Floor Details.

TJI® JOIST FLOOR DETAILS

E For load bearing cantilever, see page 7. 3/4" CDX plywood closure. TJI® joist blocking.	F 2x — plate flush with inside face of wall or beam. TJI® joist hanger.	G Filler block. Nail with 10-10d nails. Backer block. Nail with 10-10d nails. TJI® joist hanger. Backer block required where hanger load exceeds 250 lbs.
H MICRO=LAM® L.V.L. beam. TJI joist hanger.	I Filler block. Nail with 10-10d nails. Backer block. Nail with 10-10d nails. Framing anchor each side.	J Solid block — all posts from above to bearing below.
K Web stiffener each side may be required (see Note 4, page 4). See detail "L" for attachment.	L Web stiffener attachment. Small gap (1/4" ±) 2-8d nails, clinch. Tight fit. Plywood web stiffener: 9 1/2" and 11 1/8": 3/4" x 2-5/16" minimum. 14" and 16": 1" x 2-5/16" minimum.	M Do not bevel cut joist beyond inside face of wall. NOTE: TJI® joist blocking or metal or wood x-bracing required at bearing for lateral support.
N NON-LOAD BEARING CANTILEVER DETAILS 2x — nailed to the side of the TJI® joist with wood backer (see General Notes, page 5). Nail through the TJI® joist and backer into the 2x — with 2 rows 10d nails at 6" o.c. and clinch. 3 1/2" min. bearing. (Uniform loads only.) Wood backer. TJI® joist blocking. 1 1/2 times cantilever length. 4' span max. SECTION TJI® joists may be cantilevered up to 1/3 the adjacent span if not supporting concentrated load at end of cantilever. (In that situation, see details, page 7.) TJI® joists should be protected from the weather. TJI® joist blocking. (Uniform loads only.) Adjacent span. 1/3 adjacent span (max.). Example: 4'-0" Example: 12'-0"		

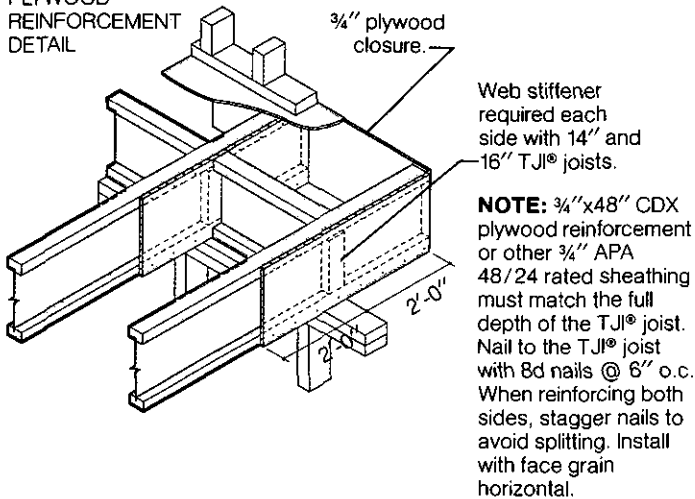
TJI® JOIST LOAD BEARING CANTILEVER DETAILS

LOAD BEARING CANTILEVER DETAILS

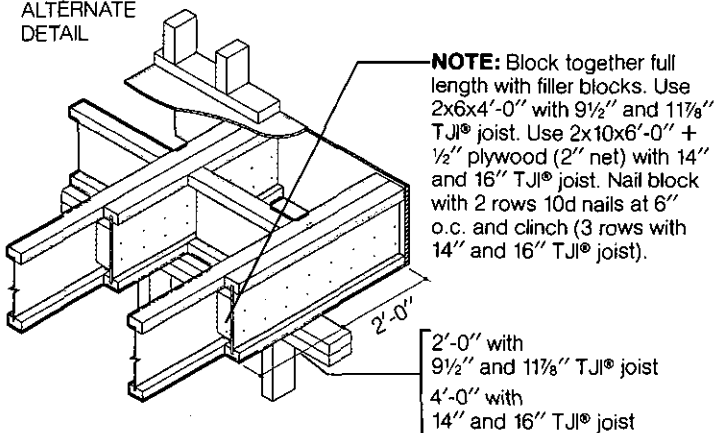


TJI® joists may be cantilevered up to a maximum of 2'-0" when supporting roof load, but may require reinforcement. Consult tables on this page to determine required reinforcement and details on this page for methods of reinforcement.

PLYWOOD REINFORCEMENT DETAIL



ALTERNATE DETAIL



Numbers in charts refer to footnotes below.

O. No reinforcement required.

K. Web stiffener required each side of joist at bearing. See detail "L" page 6.

1. 3/4"x48" plywood reinforcement required on one side of joist or double the joists as shown in alternate detail. When reinforcing with plywood, add web stiffener each side of joist bearing for 14" and 16" TJI® joists.

2. 3/4"x48" plywood reinforcement required on two sides of joist or double the joists as shown in alternate detail. When reinforcing with plywood, add web stiffener each side of joist bearing for 14" and 16" TJI® joists.

3. Double the joists as shown in alternate detail.

4. Will not work. Reduce spacing of joists.

NOTE: Assumes a 10 psf roof dead load and 60 plf wall load. Additional support may be required for other loadings.

9 1/2" Load Bearing Cantilever Table

Roof Total Load		30 PSF			40 PSF			50 PSF		
Joist Spcng.		16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Roof Truss Span w/ 24" Soffit Assumed	24'	0	0	1	1	1	2	1	2	4
	26'	0	1	1	1	1	2	1	2	4
	28'	0	1	1	1	2	2	2	2	4
	30'	0	1	2	1	2	4	2	4	4
	32'	1	1	2	1	2	4	2	4	4
	34'	1	1	2	1	2	4	2	4	4
	36'	1	1	2	2	2	4	2	4	4

11 5/8" Load Bearing Cantilever Table

Roof Total Load		30 PSF			40 PSF			50 PSF		
Joist Spcng.		16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Roof Truss Span w/ 24" Soffit Assumed	26'	0	0	1	0	1	1	1	1	2
	28'	0	0	1	0	1	1	1	1	2
	30'	0	0	1	1	1	2	1	1	2
	32'	0	1	1	1	1	2	1	1	2
	34'	0	1	1	1	1	2	1	2	4
	36'	0	1	1	1	1	2	1	2	4
	38'	0	1	1	1	1	2	2	2	4

14" Load Bearing Cantilever Table

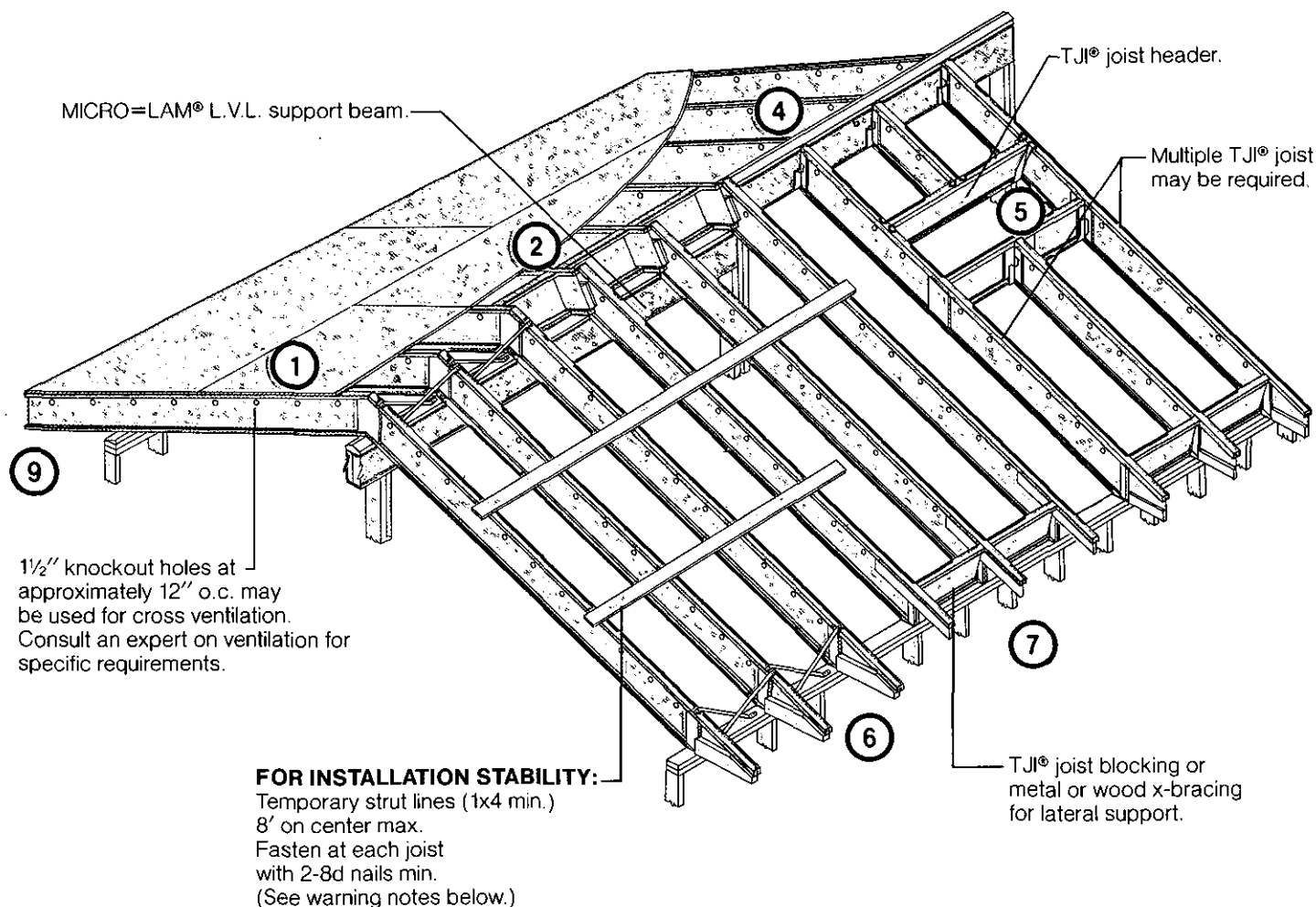
Roof Total Load		30 PSF			40 PSF			50 PSF		
Joist Spcng.		16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Roof Truss Span w/ 24" Soffit Assumed	26'	0	0	0	0	0	1	0	1	2
	28'	0	0	0	0	0	1	0	1	2
	30'	0	0	0	0	0	1	0	1	3
	32'	0	0	K	0	1	2	1	2	3
	34'	0	0	1	0	1	2	1	2	3
	36'	0	0	1	0	1	2	1	2	3
	38'	0	0	1	0	1	3	1	2	3
	40'	0	0	1	K	1	3	2	3	3
	42'	0	K	1	1	2	3	2	3	3

16" Load Bearing Cantilever Table

Roof Total Load		30 PSF			40 PSF			50 PSF		
Joist Spcng.		16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Roof Truss Span w/ 24" Soffit Assumed	26'	0	0	0	0	0	K	0	K	1
	28'	0	0	0	0	0	K	0	K	1
	30'	0	0	0	0	0	1	0	1	2
	32'	0	0	K	0	K	1	K	1	2
	34'	0	0	K	0	K	1	K	1	2
	36'	0	0	K	0	K	1	K	1	2
	38'	0	0	K	0	1	2	1	1	3
	40'	0	0	1	K	1	2	1	2	3
	42'	0	K	1	K	1	2	1	2	3

TJI® JOIST ROOF DETAILS

TYPICAL ROOF FRAMING



NAILING OF SHEATHING TO TOP FLANGE

Nail Size	Closest o.c. spacing per row
8d box	2"
8d common	2"
10d, 12d box	2"
10d, 12d common	3"

- Maximum spacing of nails is:
18" o.c. for 9 1/2" and 11 1/8" TJI® joists
24" o.c. for 14" and 16" TJI® joists
- If more than 1 row of nails is used, the rows must be offset at least 1/2".
- 14 ga. staples may be substituted for 8d nails if minimum penetration of 1" into the TJI® joist is achieved.

WARNING

DO NOT ALLOW WORKERS ON TJI® JOISTS UNTIL ALL BLOCKING, RIM JOISTS, HANGERS AND TEMPORARY BRACING ARE COMPLETED IN ACCORDANCE WITH ITEMS 1, 2, and 3 BELOW.

Improper concern for bracing during construction can result in serious accidents. Under normal conditions if the following guidelines are observed, accidents will be avoided.

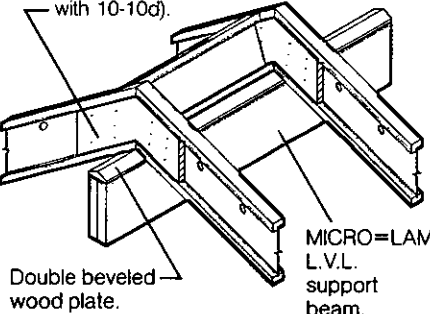
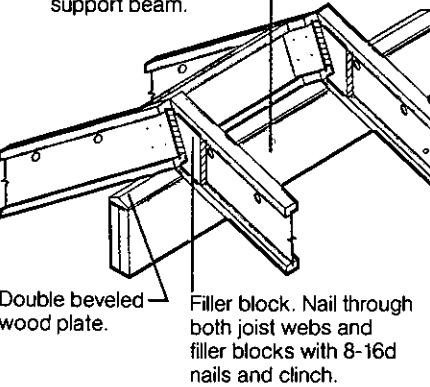
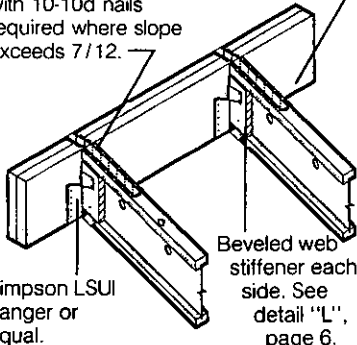
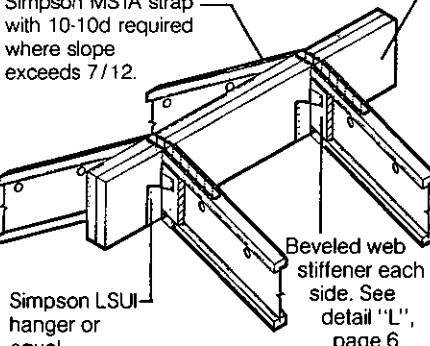
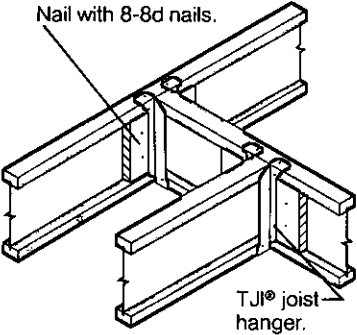
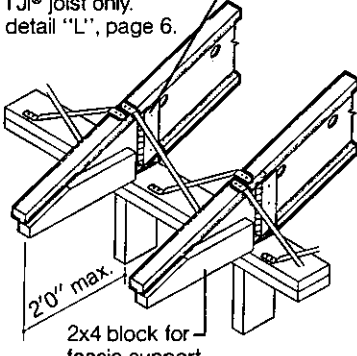
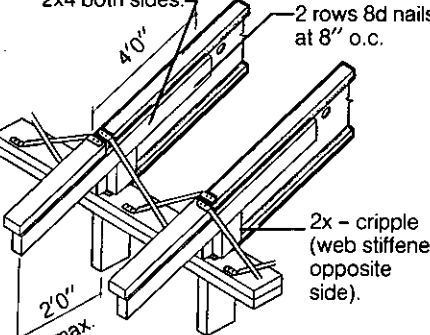
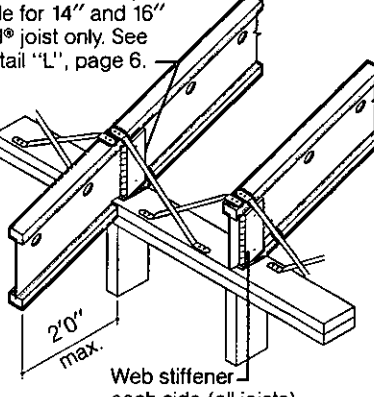
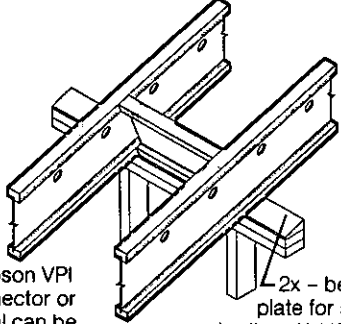
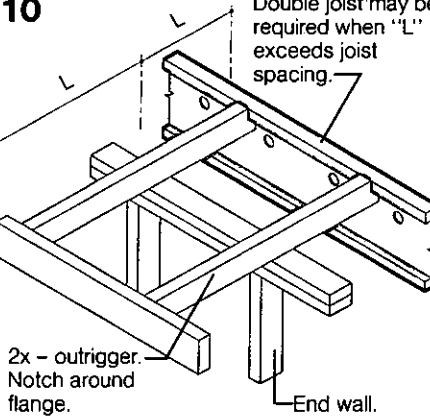
- A lateral strength, like a braced end wall or an existing deck, must be established at the ends of the bay. This can also be accomplished by a temporary or permanent deck (sheathing) nailed to the first 4 feet of joists at the end of the bay.
- All blocking, hangers and rim joists at the end supports of the TJI®

joists must be completely installed and properly nailed.

- Temporary strut lines of 1x4 minimum must be nailed to the braced end wall or sheathed area as in 1 above and to each joist at the on-center spacing shown. Without this bracing, buckling sideways or roll over is highly probable under light construction loads — like two workers and one layer of unnailed sheathing.
- Sheathing must be totally attached to each TJI® joist before additional loads can be placed on the system.
- Ends of cantilevers require strut lines on both the top and bottom flanges.
- The top flanges must remain straight within a tolerance of 1/2" ± from true alignment.

NOTE: TJI® JOISTS SHOULD BE PROTECTED FROM THE WEATHER.

TJI® JOIST ROOF DETAILS

1 $\frac{3}{4}$" x 2'0" plywood gusset each side with 12-8d nails and clinch (or use Simpson MSTA with 10-10d).  Double beveled wood plate. MICRO=LAM® L.V.L. support beam.	2 MICRO=LAM® L.V.L. support beam.  Double beveled wood plate. Filler block. Nail through both joist webs and filler blocks with 8-16d nails and clinch.	3 Simpson MSTA strap with 10-10d nails required where slope exceeds 7/12.  MICRO=LAM® L.V.L. support beam. Simpson LSUI hanger or equal. Beveled web stiffener each side. See detail "L", page 6.
4 Simpson MSTA strap with 10-10d required where slope exceeds 7/12.  MICRO=LAM® L.V.L. support beam. Beveled web stiffener each side. See detail "L", page 6. Simpson LSUI hanger or equal.	5 Backer block required where hanger load exceeds 250 lbs. Nail with 8-8d nails.  TJI® joist hanger.	6 Web stiffener required each side for 14" and 16" TJI® joist only. See detail "L", page 6.  2'0" max. 2x4 block for fascia support.
7 2x4 one side. If load is greater than 50 psf, or if joist spacing is greater than 32" o.c., use 2x4 both sides.  4'0" 2 rows 8d nails at 8" o.c. 2x - cripple (web stiffener opposite side). 2'0" max.	8 Web stiffener required each side for 14" and 16" TJI® joist only. See detail "L", page 6.  2'0" max. Web stiffener each side (all joists).	9  Simpson VPI connector or equal can be used in lieu of beveled plate for slopes for slopes from 1/12 to 6/12. 2x - beveled plate for slope greater than 1/4 12. For slope greater than 4/12 additional connectors may be required.
10  Double joist may be required when "L" exceeds joist spacing. 2x - outrigger. Notch around flange. End wall.	GENERAL NOTES: MAXIMUM SLOPE Unless otherwise noted, all details are valid to maximum 12/12 slope. MINIMUM BEARING 1 1/4" minimum bearing required at joist ends; 3 1/2" minimum bearing at intermediate supports. BIRDSMOUTH CUTS AT BEARING TJI® joist flange may be birdsmouth cut only at the low end of the joist. Birds mouth cut must not overhang inside face of plate, so that TJI® joist flange bears fully on plate. LATERAL SUPPORT All roof joist end bearings must be laterally supported. Use TJI® joist blocking or metal or wood X-bracing. VENTILATION 1 1/2" knockout holes at 12" o.c. may be used for cross-ventilation of joist space. Consult an expert on ventilation for specific requirements. TJI® JOIST HANGERS See page 15.	

TJI® JOIST ROOF SPAN CHART

Low slope (6/12 or less) and high slope (over 6/12 through 12/12)

Max. clear span in feet and inches (based on horizontal spans)

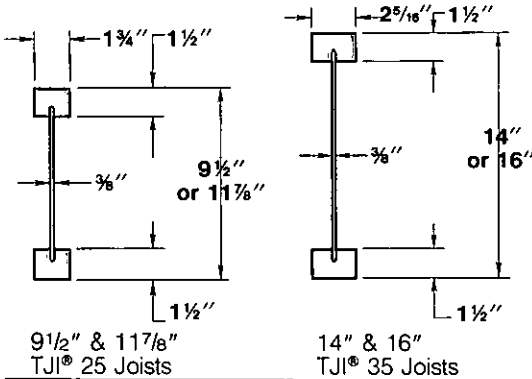
JOIST SPACING		LIVE / DEAD LOAD	9 1/2" TJI®/25		11 3/8" TJI®/25		14" TJI®/35		16" TJI®/35	
		P.S.F.	LOW SLOPE	HIGH SLOPE	LOW SLOPE	HIGH SLOPE	LOW SLOPE	HIGH SLOPE	LOW SLOPE	HIGH SLOPE
12" o.c.	Non-Snow (125%)	20/10	23'-10"	21'-5"	28'-4"	25'-6"	35'-3"	31'-9"	39'-1"	35'-2"
		20/15	22'-6"	20'-1"	26'-9"	23'-11"	33'-4"	29'-9"	36'-11"	33'-0"
		20/20	21'-5"	19'-0"	25'-6"	22'-7"	31'-9"	28'-2"	35'-2"	31'-3"
	Snow (115%)	25/10	22'-7"	20'-5"	26'-11"	24'-4"	33'-6"	30'-4"	37'-1"	33'-7"
		25/15	21'-6"	19'-3"	25'-7"	23'-0"	31'-11"	28'-7"	35'-4"	31'-8"
		30/10	21'-7"	19'-7"	25'-9"	23'-4"	32'-0"	29'-1"	35'-6"	32'-2"
		30/15	20'-8"	18'-7"	24'-7"	22'-2"	30'-8"	27'-7"	33'-11"	30'-7"
		40/10	19'-9"	18'-3"	23'-6"	21'-9"	29'-3"	27'-1"	32'-5"	30'-0"
		40/15	19'-4"	17'-6"	23'-0"	20'-10"	28'-8"	25'-11"	31'-9"	28'-9"
		50/10	18'-3"	17'-0"	21'-9"	20'-3"	27'-1"	25'-2"	30'-0"	27'-11"
		50/15	18'-3"	16'-7"	21'-9"	19'-9"	27'-1"	24'-7"	30'-0"	27'-3"
16" o.c.	Non-Snow (125%)	20/10	21'-6"	19'-5"	25'-8"	23'-1"	31'-11"	28'-9"	35'-4"	31'-10"
		20/15	20'-4"	18'-2"	24'-3"	21'-8"	30'-2"	26'-11"	33'-5"	29'-10"
		20/20	19'-4"	17'-2"	23'-0"	20'-6"	28'-8"	25'-6"	31'-9"	28'-3"
	Snow (115%)	25/10	20'-5"	18'-6"	24'-4"	22'-0"	30'-4"	27'-5"	33'-7"	30'-5"
		25/15	19'-5"	17'-5"	23'-2"	20'-9"	28'-10"	25'-11"	31'-11"	28'-8"
		30/10	19'-6"	17'-9"	23'-3"	21'-1"	29'-0"	26'-4"	32'-1"	29'-2"
		30/15	18'-8"	16'-10"	22'-3"	20'-1"	27'-8"	25'-0"	30'-8"	27'-8"
		40/10	17'-10"	16'-6"	21'-3"	19'-8"	26'-5"	24'-6"	29'-4"	27'-2"
		40/15	17'-5"	15'-10"	20'-9"	18'-10"	25'-10"	23'-6"	28'-8"	26'-0"
		50/10	16'-6"	15'-4"	19'-7"	18'-3"	24'-5"	22'-9"	26'-9"	25'-3"
		50/15	16'-5"	15'-0"	19'-6"	17'-10"	24'-5"	22'-3"	24'-8"	23'-3"
19.2" o.c.	Non-Snow (125%)	20/10	20'-2"	18'-2"	24'-1"	21'-8"	30'-0"	27'-0"	33'-2"	29'-11"
		20/15	19'-1"	17'-1"	22'-9"	20'-4"	28'-3"	25'-3"	31'-4"	28'-0"
		20/20	18'-2"	16'-2"	21'-7"	19'-3"	26'-11"	23'-11"	29'-10"	26'-6"
	Snow (115%)	25/10	19'-2"	17'-4"	22'-10"	20'-8"	28'-5"	25'-9"	31'-6"	28'-6"
		25/15	18'-3"	16'-5"	21'-9"	19'-6"	27'-0"	24'-4"	29'-11"	26'-11"
		30/10	18'-4"	16'-8"	21'-10"	19'-10"	27'-2"	24'-8"	30'-1"	27'-4"
		30/15	17'-6"	15'-10"	20'-10"	18'-10"	26'-0"	23'-5"	28'-9"	26'-0"
		40/10	16'-8"	15'-6"	19'-11"	18'-5"	24'-9"	23'-0"	26'-8"	25'-4"
		40/15	16'-4"	14'-10"	19'-2"	17'-8"	24'-0"	22'-0"	24'-3"	22'-8"
		50/10	15'-5"	14'-5"	17'-10"	17'-1"	22'-5"	21'-4"	22'-8"	21'-8"
		50/15	15'-0"	14'-1"	16'-6"	15'-7"	20'-8"	19'-6"	20'-11"	19'-9"
24" o.c.	Non-Snow (125%)	20/10	18'-8"	16'-10"	22'-3"	20'-1"	27'-8"	25'-0"	30'-8"	27'-8"
		20/15	17'-7"	15'-9"	21'-0"	18'-9"	26'-2"	23'-5"	29'-0"	25'-11"
		20/20	16'-9"	14'-11"	20'-0"	17'-9"	24'-10"	22'-1"	27'-6"	24'-6"
	Snow (115%)	25/10	17'-9"	16'-1"	21'-1"	19'-1"	26'-3"	23'-10"	29'-2"	26'-5"
		25/15	16'-10"	15'-2"	20'-1"	18'-0"	25'-0"	22'-6"	26'-2"	23'-10"
		30/10	16'-11"	15'-5"	20'-2"	18'-4"	25'-1"	22'-10"	26'-6"	24'-11"
		30/15	16'-2"	14'-7"	18'-8"	17'-2"	23'-4"	21'-6"	23'-7"	21'-9"
		40/10	15'-5"	14'-4"	17'-2"	16'-3"	21'-6"	20'-5"	21'-9"	20'-8"
		40/15	14'-2"	13'-2"	15'-7"	14'-7"	19'-6"	18'-3"	19'-10"	18'-6"
		50/10	13'-2"	12'-8"	14'-7"	14'-0"	18'-3"	17'-6"	18'-6"	17'-9"
		50/15	12'-2"	11'-6"	13'-6"	12'-9"	16'-10"	15'-11"	17'-1"	16'-2"

1. Roof joists to be sloped 1/4" in 12" minimum. No camber provided.
2. Maximum deflection is limited to L/180 at total load, L/240 at live load.
3. Tables are based on a support beam or wall at the high end. Applications utilizing ridge boards are not covered by these tables.

NOTE: For loads or on-center spacings not shown, refer to allowable uniform load table, page 13.

TJI® JOIST DESIGN PROPERTIES & SPAN CHARTS

DEPTH (INCHES)	WEIGHT (PLF) ⁽¹⁾	EI* 10 ⁹ IN ² LBS.	MAXIMUM VERTICAL SHEAR (LBS.)			MAXIMUM RESISTIVE MOMENT (FT.-LBS.)		
			100%	115%	125%	100%	115%	125%
9½" TJI/25 Joist	1.9	170	805	925	1006	2940	3380	3675
11⅞" TJI/25 Joist	2.2	285	875	1006	1094	3935	4525	4920
14" TJI/35 Joist	2.8	550	1100	1265	1375	6450	7420	8060
16" TJI/35 Joist	3	745	1100	1265	1375	7570	8705	9460



*The following formula approximates the uniform load deflection of Δ (inches)

$$\Delta = \frac{22.5w\ell^4}{EI} + \frac{4.44w\ell^2}{d \times 10^5}$$

w = uniform load in pounds per lineal foot
ℓ = clear span in feet
d = out to out depth of the joist
EI = value from table

NOTE: The shear values above are based on an assumed minimum bearing length of 1¼".

⁽¹⁾ Weights shown are for Douglas Fir MICRO = LAM® L.V.L. flanges. For Southern Pine MICRO = LAM® L.V.L. flanges, increase weight approximately 20%.

RESIDENTIAL FLOOR SPAN CHARTS

MINIMUM CRITERIA PER CODE

o.c. spacing	JOIST DEPTH			
	9½"	11⅞"	14"	16"
12"	18'-7"	27'-3"	30'-1"	
16"	18'-1"	20'-2"	24'-8"	27'-4"
19.2"	15'-11"	18'-11"	23'-2"	25'-8"
24"	14'-9"	17'-6"	20'-3"	21'-10"

NOTE: Based on minimum code deflection criteria of L/360 at live load. For stiffer floors, please see "Trus Joist Recommended Span" table. See "A Word About Floor Performance" below.

GENERAL NOTES:

- Based on residential floor load of 40 PSF live load and 10 PSF dead load.
- Assumes composite action with single layer of glue-nailed plywood decking for deflection only. **Spans shall be reduced 5" where sheathing panels are nailed only.**
- Spans are based on clear distance between supports.

TRUS JOIST RECOMMENDED SPANS

o.c. spacing	JOIST DEPTH			
	9½"	11⅞"	14"	16"
12"	16'-10"	20'-0"	24'-6"	27'-1"
16"	15'-4"	18'-2"	22'-3"	24'-8"
19.2"	14'-5"	17'-1"	20'-11"	23'-2"
24"	13'-4"	15'-10"	19'-4"	21'-5"

NOTE: Based on L/480 live load deflection with the appropriate APA span rated sheathing.

- Web stiffeners (see detail "K", page 6) are required at intermediate supports where joists are continuous span, bearing width is less than 5¼" and either span is greater than:
13'-8": for 9½" and 11⅞" TJI® joists @ 24" o.c.
17'-2": for 11⅞" TJI® joists @ 19.2" o.c.
19'-2": for 14" and 16" TJI® joists @ 24" o.c.
24'-0": for 16" TJI® joists @ 19.2" o.c.

A WORD ABOUT FLOOR PERFORMANCE

The spans indicated in the "Minimum Criteria Per Code" chart above meet or exceed all code requirements and may provide acceptable performance to the user. But, in addition to safely supporting the loads to be imposed on it, a floor system must perform to the satisfaction of the end user. Since expectancy levels may vary from one user to another, designing a floor system becomes a subjective issue requiring judgement as to the sensitivity of the occupant.

The second span chart above entitled "Trus Joist Recommended Spans" has been developed as a guide to help builders construct higher quality floors. Spans in the "Trus Joist Recommended Spans" chart were developed using stricter deflection limits (see note under chart) to limit deflection over longer spans.

In addition to joist deflection, several other factors may affect the performance of the floor system. A glue-nailed

floor system will perform better than a nailed floor. Deflection of the sheathing material between the joists can be reduced by increasing the thickness of sheathing or decreasing the spacing of the joist. Proper installation, including adequate and level support for the joists, and care in fastening of the joists and sheathing are essential to the system performance.

In some cases where the system is stiff and very little dead load (i.e. partition walls, ceilings, furniture, etc.) exists, vibrations may occur. Vibrations are generally sufficiently dampened when a ceiling is directly attached to the bottom flange of the joists. When the joists occur in a crawl space or over an unfinished basement, the vibration can be minimized by nailing a continuous 2x4 (flat) perpendicular to the joists' bottom flanges at midspan and tying off to the end walls.

TJI® JOIST ALLOWABLE UNIFORM LOAD – FLOOR

In lbs. per lin. foot (PLF)

SPAN	9½" TJI®/25 JOIST		11⅝" TJI®/25 JOIST		14" TJI®/35 JOIST		16" TJI®/35 JOIST		SPAN
	LIVE LOAD	TOTAL LOAD	LIVE LOAD	TOTAL LOAD	LIVE LOAD	TOTAL LOAD	LIVE LOAD	TOTAL LOAD	
6		268		291		345		345	6
7		230		250		296		296	7
8		201		219		259		259	8
9		179		194		230		230	9
10	140	161		175		207		207	10
11	110	146		159		188		188	11
12	88	132	138	146		173		173	12
13	71	121	113	135		158		159	13
14	58	111	93	124		145		148	14
15	48	97	78	115		134		137	15
16	41	81	65	107	115	125		127	16
17	34	69	55	100	98	116		118	17
18	29	58	47	94	85	109		111	18
19	25	50	41	82	73	103	96	104	19
20	22	43	35	71	64	97	84	99	20
21	19	38	31	62	56	92	74	93	21
22	17	33	27	54	50	87	65	89	22
23	15	29	24	48	44	83	58	84	23
24			21	42	39	78	52	80	24
25			19	38	35	70	46	77	25
26			17	34	31	62	41	74	26
27			15	30	28	56	37	71	27
28					25	51	34	68	28
29					23	46	31	61	29
30					21	42	28	56	30
31					19	38	25	51	31
32					17	35	23	46	32
33					16	32	21	43	33
34					15	29	20	39	34

1. Live load values are based on deflection of L/480. For deflection limits of L/180, L/240, and L/360, multiply live load by 2.67, 2.0, and 1.33 respectively.
2. Total load column limits joist deflection to L/240.

3. To size a joist for use in a floor, it is necessary to check both live load and total load. When live load is not shown, total load will control.
4. Load capacity assumes no composite action provided by sheathing.
5. The values above reflect the most restrictive of simple span or multiple span applications.

PSF TO PLF CONVERSION TABLE

Load in lbs. per lineal foot (PLF)

o.c. spacing	LOAD IN LBS. PER SQUARE FOOT (PSF)								
	20	25	30	35	40	45	50	55	60
12"	20	25	30	35	40	45	50	55	60
16"	27	34	40	47	54	60	67	74	80
19.2"	32	40	48	56	64	72	80	88	96
24"	40	50	60	70	80	90	100	110	120

TJI® JOIST ALLOWABLE UNIFORM LOAD – ROOF

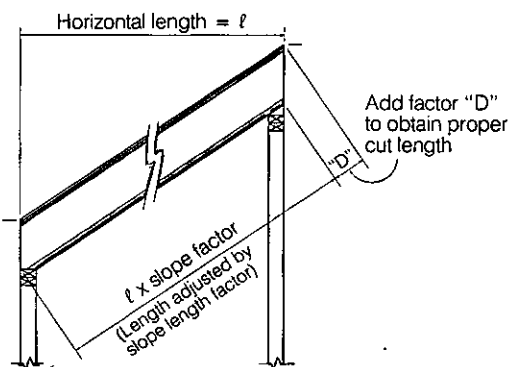
In lbs. per lin. foot (PLF)

SPAN	9½" TJI®/25 JOIST			11½" TJI®/25 JOIST			14" TJI®/35 JOIST			16" TJI®/35 JOIST			SPAN
	TOTAL LOAD		DEFL.	TOTAL LOAD		DEFL.	TOTAL LOAD		DEFL.	TOTAL LOAD		DEFL.	
	Snow (115%)	Non-Snow (125%)	L/240	Snow (115%)	Non-Snow (125%)	L/240	Snow (115%)	Non-Snow (125%)	L/240	Snow (115%)	Non-Snow (125%)	L/240	
6	290	316		316	343		397	431		397	431		6
7	249	271		271	294		340	370		340	370		7
8	218	237		237	257		298	324		298	324		8
9	192	208		210	229		265	288		265	288		9
10	170	184		189	206		238	259		238	259		10
11	152	165		171	186		216	235		216	235		11
12	138	150		155	168		198	216		198	216		12
13	126	137		141	153		182	198		183	199		13
14	116	126	117	130	141		167	181		170	185		14
15	108	117	97	120	130		154	168		157	171		15
16	101	108	81	112	121		143	156		146	159		16
17	91	91	69	104	114	111	134	145		136	148		17
18	78	78	58	98	107	95	125	136		128	139		18
19	67	67	50	92	100	82	118	128		120	130		19
20	58	58	43	87	94	71	112	121		113	123		20
21	50	50	38	82	82	62	106	115	112	107	117		21
22	44	44	33	72	72	54	101	109	99	102	111		22
23	39	39	29	64	64	48	96	104	88	97	105		23
24	34	34	26	56	56	42	91	99	78	93	101		24
25	31	31	23	50	50	38	87	93	70	89	96	92	25
26	27	27	20	45	45	34	83	83	62	85	92	83	26
27	24	24	18	40	40	30	75	75	56	81	88	75	27
28	22	22	16	36	36	27	68	68	51	78	85	68	28
29	20	20	15	33	33	25	61	61	46	75	82	61	29
30				30	30	22	56	56	42	73	74	56	30
31				27	27	20	51	51	38	68	68	51	31
32				25	25	18	46	46	35	62	62	46	32
33				23	23	17	42	42	32	57	57	43	33
34				21	21	15	39	39	29	52	52	39	34

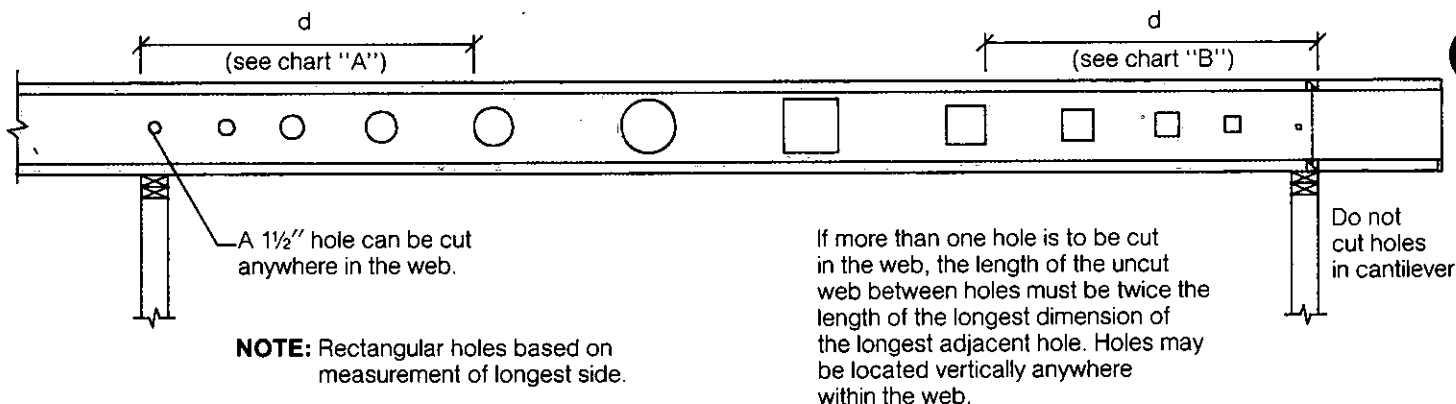
1. Roof joists to be sloped ¼" in 12" minimum. No camber provided.
2. For roof slopes greater than 2/12, consideration must be given to the increased dead load and deflection caused by actual sloped length.
3. Total load column limits joist deflection to L/180. For stiffer deflection criteria, check L/240 column.
4. Values shown are for worst case of simple or no W.S. considerations span.

Actual slope length can be approximated by multiplying the horizontal span by the following factors.

SLOPE LENGTH TABLE		"D" FACTOR			
SLOPE	FACTOR	9½"	11½"	14"	16"
2½ in 12	1.02	2"	2½"	3"	3¾"
3 in 12	1.03	2¾"	3"	3½"	4"
3½ in 12	1.04	2¾"	3½"	4½"	4¾"
4 in 12	1.05	3¼"	4"	4¾"	5¾"
4½ in 12	1.07	3¾"	4½"	5¼"	6"
5 in 12	1.08	4"	5"	5¾"	6¾"
6 in 12	1.12	4¾"	6"	7"	8"
7 in 12	1.16	5¾"	7"	8¼"	9¾"
8 in 12	1.20	6¾"	8"	9¾"	10¾"
9 in 12	1.25	7¼"	9"	10½"	12"
10 in 12	1.30	8"	10"	11¾"	13¾"
11 in 12	1.36	8¾"	11"	12¾"	14¾"
12 in 12	1.41	9½"	11¾"	14"	16"



TJI® JOIST HOLE CHARTS



TJI® Joists are manufactured with 1½" perforated "knockouts" in the web at approx. 12" o.c.

CHART A – ROUND HOLES

MINIMUM DISTANCE (d) FROM ANY SUPPORT TO HOLE

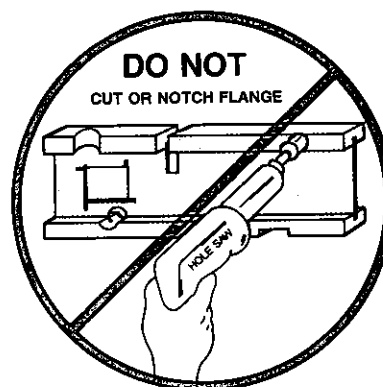
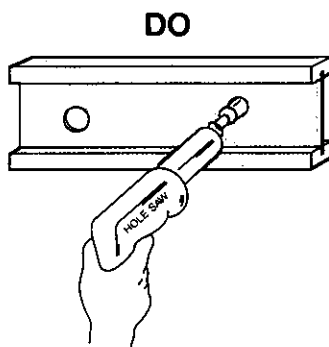
		ROUND HOLE SIZE													
		2"	3"	4"	5"	6"	6½"	7"	8"	8½"	9"	10"	11"	12"	13"
JOIST TYPE	9½" TJI®/25	1'-0"	2'-0"	3'-0"	4'-0"	5'-0"	5'-0"	—	—	—	—	—	—	—	—
	11½" TJI®/25	2'-0"	2'-6"	3'-0"	4'-0"	5'-0"	5'-0"	5'-0"	5'-6"	6'-0"	—	—	—	—	—
	14" TJI®/35	2'-6"	3'-6"	4'-0"	4'-6"	5'-0"	5'-0"	5'-0"	5'-6"	6'-0"	6'-0"	6'-6"	7'-0"	—	—
	16" TJI®/35	2'-6"	3'-6"	4'-0"	4'-6"	5'-0"	5'-0"	5'-0"	5'-6"	6'-0"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"

CHART B – RECTANGULAR HOLES

MINIMUM DISTANCE (d) FROM ANY SUPPORT TO HOLE

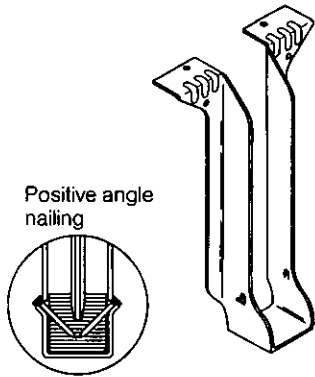
		RECTANGULAR HOLE SIZE – LONGEST DIMENSION										
		4"	5"	6"	6½"	7"	8"	8½"	9"	10"	11"	12"
JOIST TYPE	9½" TJI®/25	4'-0"	5'-0"	5'-6"	6'-0"	—	—	—	—	—	—	—
	11½" TJI®/25	4'-0"	5'-0"	5'-6"	6'-0"	6'-0"	6'-6"	6'-6"	—	—	—	—
	14" TJI®/35	4'-6"	5'-0"	5'-6"	6'-0"	6'-0"	6'-6"	6'-6"	7'-0"	8'-0"	—	—
	16" TJI®/35	4'-6"	5'-0"	5'-6"	6'-0"	6'-0"	6'-6"	6'-6"	7'-0"	8'-0"	8'-6"	9'-0"

NOTE: The distances in the above charts are based on uniformly loaded joists supporting the maximum loads shown for any of the tables listed in this reference guide. For other load conditions, contact your Trus Joist representative.



TJI® JOIST FRAMING CONNECTORS

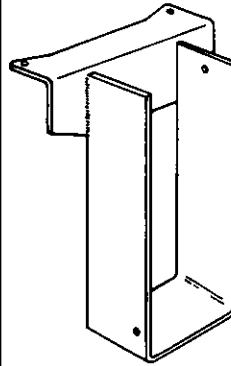
H1 TOP MOUNT SINGLE JOIST HANGER



Joist
9½" TJI®/25
11⅞" TJI®/25
14" TJI®/35
16" TJI®/35

Hanger Required
IT-9
IT-11
IT-3514
MIT-3516

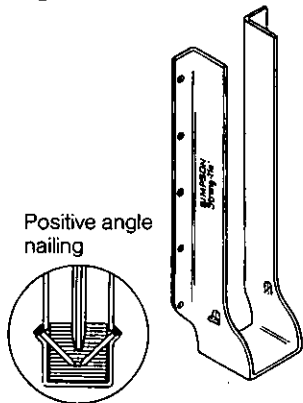
H2 TOP MOUNT DOUBLE JOIST HANGER



Joist
9½" TJI®/25
11⅞" TJI®/25
14" TJI®/35
16" TJI®/35

Double Hanger Required
W9-2 or MIT 9-2
W11-2 or MIT 11-2
WP3514-2
WP3516-2

H3 FACE MOUNT SINGLE JOIST HANGER

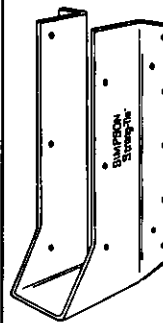


Joist
9½" TJI®/25
11⅞" TJI®/25
14" TJI®/35
16" TJI®/35

Hanger Required
IU-9
IU-11
IU-3514
IU-3514*

*Web stiffeners are required whenever the sides of the hanger do not extend up to support the top flange laterally.

H4 FACE MOUNT DOUBLE JOIST HANGER



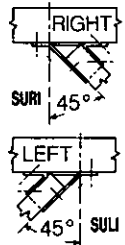
Joist
9½" TJI®/25
11⅞" TJI®/25
14" TJI®/35
16" TJI®/35

Double Hanger Required
U-410*
U-410*
HU3514-2*
HU3516-2*

*Web stiffeners are required.

H5 FACE MOUNT SKEWED JOIST HANGER

Available for both left hand and right hand applications.



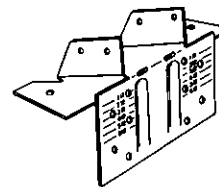
Joist
9½" TJI®/25
11⅞" TJI®/25
14" TJI®/35
16" TJI®/35

Skewed Hanger Required
SURI-9/SULI-9
45° skew
SURI-11/SULI-11
45° skew*
SURI 3510-12/SULI 3510-12
45° skew*
OR
SURI 3514-20/SULI 3514-20
45° skew*

*Web stiffeners are required.

TOP VIEW

H6 VARIABLE SLOPE SEAT CONNECTOR



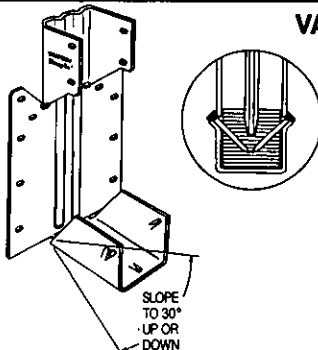
Max. 6:12 Slope

Joist
9½" & 11⅞" TJI®/25
14" & 16" TJI®/35

Hanger Required
VPI/25
VPI/35

NOTE: Requires 3½" bearing surface.

H7 VARIABLE SLOPE SEAT JOIST HANGER



Joist
9½" TJI®/25
11⅞" TJI®/25
14" TJI®/35
16" TJI®/35
DBL 9½" TJI®/25
DBL 11⅞" TJI®/25

Hanger Required
LSUI 25*
LSUI 25*
LSUI 35*
LSUI 35*
LSU 410*(1)
LSU 410*(1)

LSUI 25 and LSUI 35 are also available in 45° skews left or right.

(1)Maximum load on hanger is 1175 lb.

*Web stiffeners are required.

TJI® joist framing connectors illustrated above are manufactured by Simpson Strong-Tie Company, Inc.

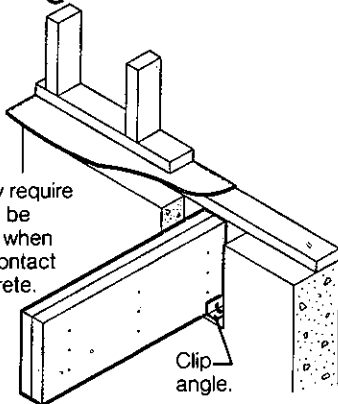
NOTE: For Web Stiffener Detail, see page 6.

NOTE: Maximum loads assume all nail holes used with proper nails.

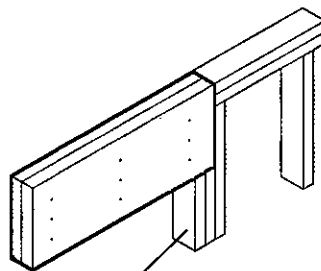
MICRO=LAM® L.V.L. DETAILS

BEARING @ EXTERIOR WALL

Code may require that wood be protected when in direct contact with concrete.

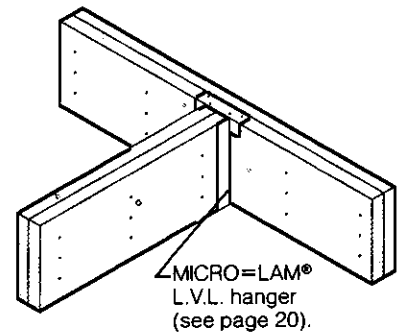


BEARING FOR DOOR OR WINDOW HEADER



Trimmers. See table below for minimum bearing length.

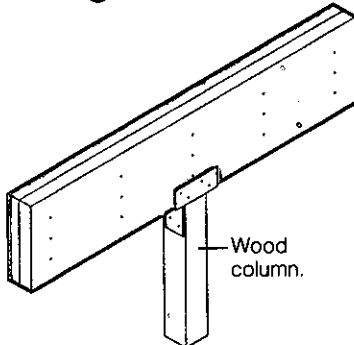
BEAM TO BEAM CONNECTION



See Table 7, page 21, for side loaded MICRO=LAM® L.V.L. beams.

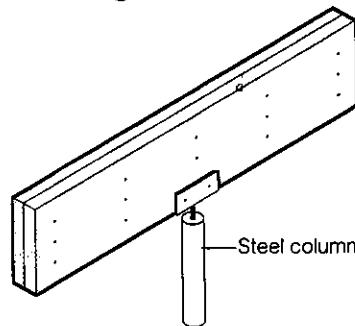
NOTE: BEARING LENGTH IS EXTREMELY CRITICAL AND MUST BE CONSIDERED FOR EACH APPLICATION.

BEARING @ WOOD COLUMN



Verify column capacity and bearing length.

BEARING @ STEEL COLUMN

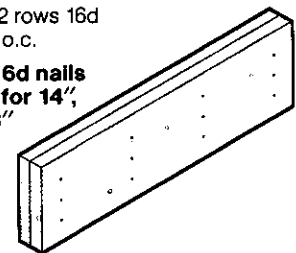


Verify column capacity and bearing length.

NAILING PATTERN FOR MULTIPLE PIECES

For Top Loaded Beams
Minimum of 2 rows 16d nails @ 12" o.c.

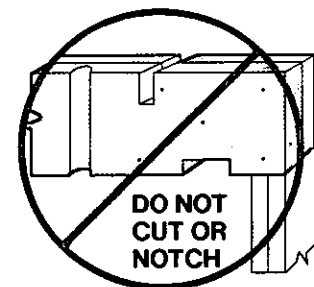
3 rows of 16d nails @ 12" o.c. for 14", 16", and 18" beams.



NOTE: For side loaded multiple member beams, additional nailing or bolting may be required. See Table 7, page 21.

BEARING LENGTH REQUIREMENTS

MINIMUM BEARING LENGTH IN INCHES									
	ONE PIECE BEAM			TWO PIECE BEAM			THREE PIECE BEAM		
	100%	115%	125%	100%	115%	125%	100%	115%	125%
REACTION (POUNDS X 1,000)	1	1.5"	1.5"	1.5"	1.5"	1.5"	1.5"	1.5"	1.5"
	2	3"	2.5"	2.5"	1.5"	1.5"	1.5"	1.5"	1.5"
	3	4"	3.5"	3"	2"	1.5"	1.5"	1.5"	1.5"
	4	5"	4.5"	4"	3"	2.5"	2.5"	2"	1.5"
	5	6"	5.5"	5"	3.5"	3"	2.5"	2"	2"
	6	7.5"	6.5"	6"	4"	3.5"	3"	2.5"	2.5"
	7	8.5"	7.5"	7"	4.5"	4"	3.5"	3"	2.5"
	8	9.5"	8.5"	8"	5"	4.5"	4"	3.5"	3"
	9				5.5"	5"	4.5"	4"	3.5"
	10				6"	5.5"	5"	4.5"	4"
	11				6.5"	6"	5.5"	4.5"	4"
	12				7.5"	6.5"	6"	5"	4.5"
	13				8"	7"	6.5"	5.5"	5"
	14				8.5"	7.5"	7"	6"	5.5"
	15				9"	8"	7.5"	6"	5.5"
	16				9.5"	8.5"	8"	6.5"	6"
	17							7"	6"
	18							7.5"	6.5"
	19							7.5"	7"
	20							8"	7"
	21							8.5"	7.5"
	22							9"	8"



NO DRILLING UNLESS APPROVED BY TRUS JOIST CORPORATION.

NOTES

1. A minimum of 1.5" of bearing length is required.
2. Bearing across full width of beam is assumed.
3. Assumes structural adequacy of supporting member.
4. Assumes 500 psi bearing stress on beam. May be further limited by bearing stress on supported member.
5. **16" and 18" deep beams are to be used in multiple member units only.**
6. Lateral support required at bearing points.
7. Nails installed on the narrow face (top edge) shall not be spaced any closer than 4" for 10d common and 3" for 8d common.

MICRO=LAM® L.V.L. HEADERS & BEAMS

MICRO=LAM® L.V.L. BEAM SIZING – REFERENCE DIAGRAM

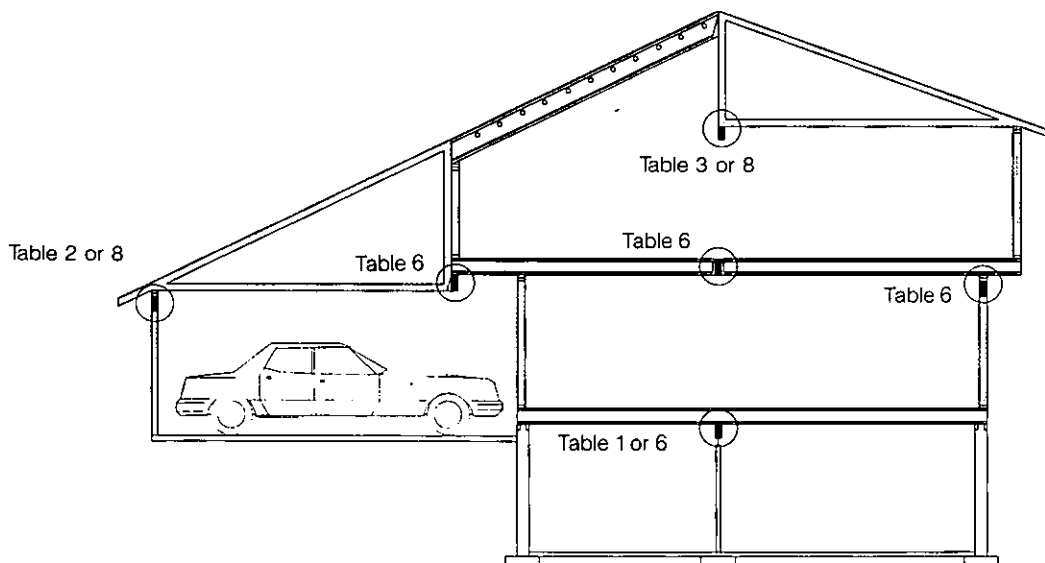
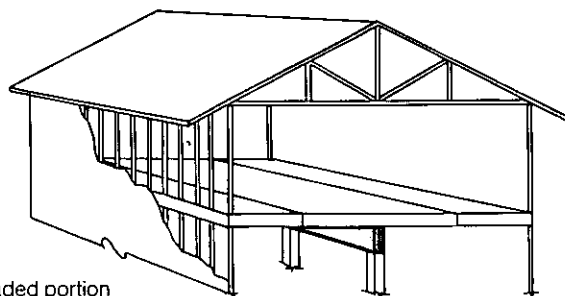


TABLE 1 – MICRO=LAM® L.V.L. FLOOR BEAM

1. Determine supported floor joist span by adding $\frac{1}{2}$ the sum of the joist spans on both sides of the beam.
2. Determine column spacing.
3. From chart below, select proper beam size.

NOTE: In non-shaded portion of table, support beam ends with double trimmers (3" bearing). At intermediate supports of continuous spans, use 5 trimmers (7½" bearing). In **shaded portion** of table, use 3 trimmers (4½" bearing) at beam ends and 7 trimmers (10½" bearing) at intermediate supports of continuous spans. These trimmer requirements are based on the narrowest beam combination shown. Actual required bearing length can be determined from table, page 16.



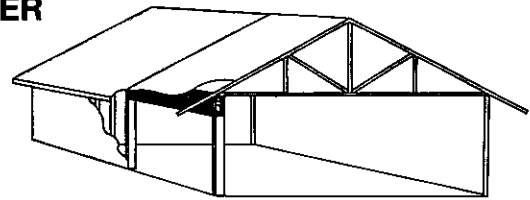
Non-shaded portion indicates area of load on beam.

COLUMN SPACING	FLOOR JOIST SPAN (Use $\frac{1}{2}$ the sum of the joist spans on both sides of the beam)								
	11'	12'	13'	14'	15'	16'	17'	18'	20'
10'	2-9½"	2-9½"	2-9½"	3-9½" or 2-11½"	3-9½" or 2-11½"	3-9½" or 2-11½"	3-9½" or 2-11½"	3-9½" or 2-11½"	3-9½" or 2-11½"
12'	3-9½" or 2-11½"	3-9½" or 2-11½"	2-11½"	2-11½"	2-11½"	3-11½" or 2-14"	3-11½" or 2-14"	3-11½" or 2-14"	3-11½" or 2-14"
14'	3-11½" or 2-14"	3-11½" or 2-14"	3-11½" or 2-14"	3-11½" or 2-14"	3-11½" or 2-14"	2-14"	3-14" or 2-16"	3-14" or 2-16"	3-14"
16'	3-14" or 2-16"	3-14" or 2-16"	3-14" or 2-16"	3-14" or 2-16"	3-14" or 2-16"	3-14" or 2-16"	3-14" or 2-16"	3-14"	3-16"
18'	3-14" or 2-16"	3-14" or 2-18"	3-16" or 2-18"	3-16" or 2-18"	3-16"	3-16"	3-16"	3-16"	3-16"
20'	3-16" or 2-18"	3-16"	3-16"	3-18"	3-18"	3-18"	3-18"	3-18"	3-18"

- Based on residential loading of 40 PSF live load and 10 PSF dead load.
- Deflection limited to L/360 at live load.
- Calculations are based on continuous floor joist span and simple or continuous beam span conditions.
- For applications other than shown, refer to Table 6.
- Reduction in live load has been applied in accordance with UBC section 2306.

MICRO=LAM® L.V.L. DESIGN DATA

TABLE 2 – MICRO=LAM® L.V.L. GARAGE DOOR HEADER
For Single Story Applications



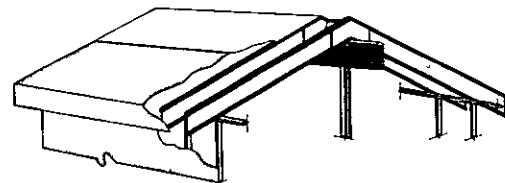
Non-shaded portion indicates area of load on header.

ROOF LOAD (P.S.F.)		NON-SNOW (125%) 20LL+10DL			NON-SNOW (125%) 20LL+20DL			SNOW (115%) 25LL+10DL			SNOW (115%) 30LL+10DL			SNOW (115%) 40LL+10DL		
DOOR OPENING SIZE		9'-3"	16'-3"	18'-3"	9'-3"	16'-3"	18'-3"	9'-3"	16'-3"	18'-3"	9'-3"	16'-3"	18'-3"	9'-3"	16'-3"	18'-3"
ROOF TRUSS SPAN IN FEET WITH 24" SOFFIT ASSUMED	22'	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-9 1/2"	2-11 1/8"	1-9 1/2" 2-7 1/4"	2-11 1/8"	3-11 1/8"	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-9 1/2"	2-14" 3-11 1/8"	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-11 1/8"	2-14" 3-11 1/8"	1-9 1/2" 2-7 1/4"	2-14" 3-11 1/8"	2-14"
	24'	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-9 1/2"	2-11 1/8"	1-9 1/2" 2-7 1/4"	2-11 1/8"	3-11 1/8"	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-11 1/8"	2-14" 3-11 1/8"	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-11 1/8"	2-14" 3-11 1/8"	2-9 1/2" 3-11 1/8"	2-14" 3-11 1/8"	2-16" 3-14"
	26'	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-9 1/2"	2-11 1/8"	1-9 1/2" 2-7 1/4"	2-11 1/8"	3-11 1/8"	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-11 1/8"	2-14" 3-11 1/8"	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-11 1/8"	2-14" 3-11 1/8"	2-9 1/2" 3-11 1/8"	2-14" 3-11 1/8"	2-16" 3-14"
	28'	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-9 1/2"	2-14" 3-11 1/8"	1-9 1/2" 2-7 1/4"	2-14" 3-11 1/8"	3-11 1/8"	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-11 1/8"	2-14" 3-11 1/8"	1-9 1/2" 2-7 1/4"	2-14" 3-11 1/8"	2-14" 3-11 1/8"	2-9 1/2" 3-11 1/8"	2-14" 3-11 1/8"	2-16" 3-14"
	30'	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-11 1/8"	2-14" 3-11 1/8"	1-9 1/2" 2-7 1/4"	2-14" 3-11 1/8"	3-11 1/8"	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-11 1/8"	2-14" 3-11 1/8"	1-11 1/8" 2-7 1/4"	2-14" 3-11 1/8"	2-14" 3-11 1/8"	2-9 1/2" 3-11 1/8"	2-14" 3-11 1/8"	2-16" 3-14"
	32'	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-11 1/8"	2-14" 3-11 1/8"	1-11 1/8" 2-7 1/4"	2-14" 3-11 1/8"	2-14"	1-9 1/2" 2-7 1/4"	2-14" 3-11 1/8"	2-14" 3-11 1/8"	2-14" 3-11 1/8"	2-14" 3-11 1/8"	2-16" 3-14"	2-9 1/2" 3-14"	2-16" 3-14"	2-18" 3-14"
	34'	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-11 1/8"	2-14" 3-11 1/8"	2-9 1/2" 3-7 1/4"	2-14" 3-11 1/8"	2-16" 3-14"	1-11 1/8" 2-7 1/4"	2-14" 3-11 1/8"	2-14" 3-11 1/8"	2-9 1/2" 3-11 1/8"	2-14" 3-11 1/8"	2-16" 3-14"	2-9 1/2" 3-14"	2-16" 3-14"	2-18" 3-14"
	36'	1-9 1/2" 2-7 1/4"	2-11 1/8" 3-11 1/8"	2-14" 3-11 1/8"	2-9 1/2" 3-7 1/4"	2-14" 3-11 1/8"	2-16" 3-14"	2-7 1/4" 3-11 1/8"	2-14" 3-11 1/8"	2-16" 3-14"	2-9 1/2" 3-11 1/8"	2-14" 3-11 1/8"	2-16" 3-14"	2-9 1/2" 3-14"	2-16" 3-14"	2-18" 3-16"

- This table is for headers carrying roof load only. For headers supporting both floor and roof loads refer to Table 5.
- For loads other than those shown, refer to Table 8.
- Deflection limited to L/240 at live load or L/180 at total load.
- Reduction in live load for non-snow load condition only has been applied in accordance with UBC section 2306.

- Support header with double trimmer (3" bearing) except headers in shaded portion of table, support with triple trimmers (4 1/2" bearing). These trimmer requirements are based on the narrowest beam combination shown. Actual required bearing length may be determined from table, page 16.

TABLE 3 – MICRO=LAM® L.V.L. RIDGE BEAM



Non-shaded portion indicates area of load on beam.

ROOF LOAD (P.S.F.)		NON-SNOW (125%)		SNOW (115%)			
		20LL+10DL	20LL+20DL	25LL+10DL	30LL+10DL	40LL+10DL	50LL+10DL
COLUMN SPACING	10'	2-7 1/4"	2-9 1/2" 3-7 1/4"	2-9 1/2" 3-7 1/4"	2-9 1/2" 3-7 1/4"	2-9 1/2"	2-9 1/2"
	12'	2-9 1/2"	2-9 1/2"	2-9 1/2"	2-9 1/2"	2-11 1/8" 3-9 1/2"	2-11 1/8" 3-9 1/2"
	14'	2-11 1/8" 3-9 1/2"	2-11 1/8" 3-9 1/2"	2-11 1/8" 3-9 1/2"	2-11 1/8" 3-9 1/2"	2-11 1/8"	2-14" 3-11 1/8"
	16'	2-11 1/8" 3-9 1/2"	2-14" 3-11 1/8"	2-11 1/8"	2-14" 3-11 1/8"	2-14" 3-11 1/8"	2-16" 3-14"
	18'	2-14" 3-11 1/8"	2-14" 3-11 1/8"	2-14" 3-11 1/8"	2-14"	2-16" 3-14"	3-16"
	20'	2-14" 3-11 1/8"	2-16" 3-14"	2-16" 3-14"	2-16" 3-14"	3-16"	3-16"
	22'	2-16" 3-14"	2-18" 3-16"	2-18" 3-14"	2-18" 3-16"	3-18"	3-18"
	24'	2-16" 3-14"	2-18" 3-16"	2-18" 3-16"	3-16"	3-18"	—

36'-0" Max. Assumed.

NOTES

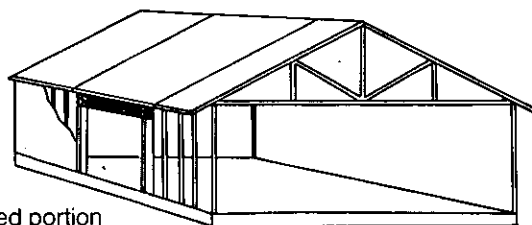
- Based on deflection of L/240 at live load or L/180 at total load.
- Based on worst case of simple or continuous beam span.
- Reduction in live load for non-snow load condition only has been applied in accordance with UBC section 2306.
- In non-shaded portion of table, support beam ends with double trimmers (3" bearing). At intermediate supports of continuous spans use 5 trimmers (7 1/2" bearing). In shaded portion of table, use 3 trimmers (4 1/2" bearing) at beam ends and 7 trimmers (10 1/2" bearing) at intermediate supports of continuous spans. These trimmer requirements are based on the narrowest beam combination shown. Actual required bearing length can be determined from table, page 16.

MICRO=LAM® L.V.L. DESIGN DATA

TABLE 4 – MICRO=LAM® L.V.L. WINDOW & PATIO DOOR HEADER

NOTES

1. Based on total load deflection of $L/240$ or $5/16''$ maximum.
2. For roof support applications only.
3. Reduction in live load for non-snow load condition only has been applied in accordance with UBC section 2306.
4. Support header with double trimmer. This requirement is based on the narrowest beam combination shown. Actual required bearing length may be determined from table, page 16.



Non-shaded portion indicates area of load on header.

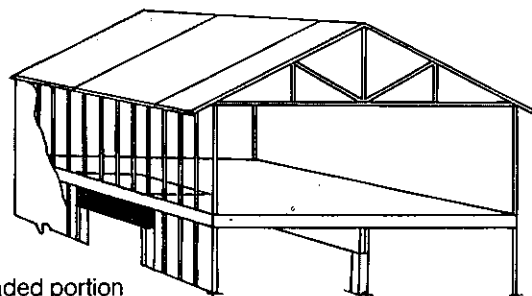
Assumed 36' Roof Truss Max. with 24" Soffit.

		Non-Snow (125%)		Snow (115%)			
ROOF LOAD (P.S.F.)		20LL/10DL	20LL/20DL	25LL/10DL	30LL/10DL	40LL/10DL	50LL/10DL
HEADER CLEAR SPAN	4 ft.	1-5½"	1-5½"	1-5½"	1-5½"	1-5½"	2-5½" 1-7¼"
	6 ft.	2-5½" 1-7¼"	2-5½" 1-7¼"	2-5½" 1-7¼"	2-5½" 1-7¼"	2-7¼" 1-9½"	2-7¼"
	8 ft.	2-7¼" 1-9½"	2-9½" 1-11½"	2-9½" 1-11½"	2-9½" 1-11½"	2-9½"	2-9½"
	10 ft.	2-11⅞" 1-14"	2-11⅞"	2-11⅞"	2-11⅞"	2-11⅞"	3-11⅞" 2-14"
	12 ft.	3-11⅞" 2-14"	3-11⅞" 2-14"	3-11⅞" 2-14"	3-11⅞" 2-14"	3-14" 2-16"	3-14" 2-16"
	14 ft.	3-14" 2-16"	3-16" 2-18"	3-14" 2-16"	3-16" 2-18"	3-16"	3-18"

TABLE 5 – MICRO=LAM® L.V.L. WINDOW & PATIO DOOR HEADER

NOTES

1. Based on live load deflection of $L/360$ or $5/16''$ maximum.
2. Assumes header is supporting ½ of the total roof load and ¼ of the total floor load, plus 60 plf wall load.
3. Reduction in roof live load for non-snow load condition only has been applied in accordance with UBC section 2306.
4. Support header with double trimmer (3" bearing) except headers in **shaded portion** of table, support with triple trimmer (4½" bearing). These trimmer requirements are based on the narrowest beam combination shown. Actual required bearing length may be determined from table, page 16.

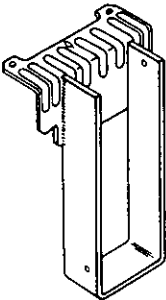
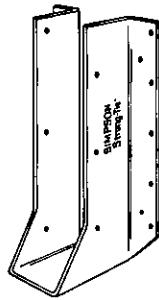
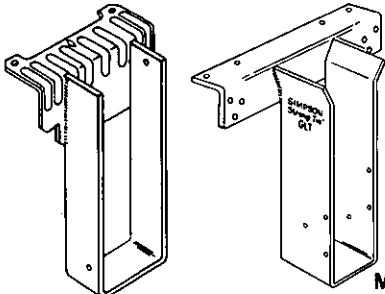
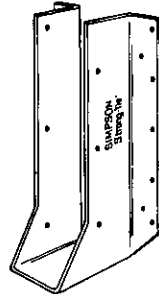
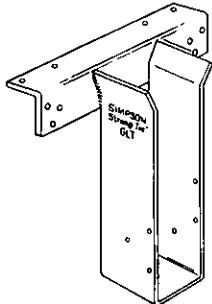
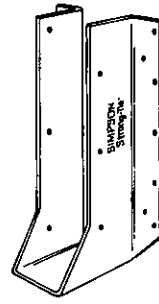


Non-shaded portion indicates area of load on header

Assumed 36' Roof Truss Max. with 24" Soffit.

		Non-Snow (125%)		Snow (115%)			
ROOF LOAD (P.S.F.)		20LL/10DL	20LL/20DL	25LL/10DL	30LL/10DL	40LL/10DL	50LL/10DL
HEADER CLEAR SPAN	4 ft.	1-5½"	2-5½" 1-7¼"	2-5½"	2-5½" 1-7¼"	2-5½" 1-7¼"	2-5½"
	6 ft.	2-7¼" 1-9½"	2-7¼"	2-7¼"	2-7¼"	2-7¼"	2-9½"
	8 ft.	2-9½"	2-9½"	2-9½"	2-9½"	2-9½"	2-11⅞"
	10 ft.	2-11⅞"	3-9½" 2-11⅞"	3-9½" 2-11⅞"	2-11⅞"	3-11⅞" 2-14"	3-11⅞" 2-14"
	12 ft.	3-11⅞" 2-14"	3-11⅞" 2-14"	3-11⅞" 2-14"	3-14" 2-16"	3-14"	3-14"

MICRO=LAM® L.V.L. FRAMING CONNECTORS

H8 TOP MOUNT SINGLE MEMBER HANGER  <table><tr><th>Header</th><th>Hanger</th><th>Maximum Load (lbs.)</th></tr><tr><td>Single 1 3/4x9 1/2"</td><td>W9</td><td>1985</td></tr><tr><td>Single 1 3/4x11 7/8"</td><td>W11</td><td>1985</td></tr></table>	Header	Hanger	Maximum Load (lbs.)	Single 1 3/4x9 1/2"	W9	1985	Single 1 3/4x11 7/8"	W11	1985	H9 FACE MOUNT SINGLE MEMBER HANGER  <table><tr><th>Header</th><th>Hanger</th><th>Maximum Load (lbs.)</th></tr><tr><td>Single 1 3/4x9 1/2"</td><td>HHU9</td><td>3130</td></tr><tr><td>Single 1 3/4x11 7/8"</td><td>HHU11</td><td>3230</td></tr><tr><td>Single 1 3/4x14"</td><td>HHU14</td><td>3580</td></tr><tr><td>or larger</td><td></td><td></td></tr></table>	Header	Hanger	Maximum Load (lbs.)	Single 1 3/4x9 1/2"	HHU9	3130	Single 1 3/4x11 7/8"	HHU11	3230	Single 1 3/4x14"	HHU14	3580	or larger														
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Single 1 3/4x11 7/8"	HHU11	3230																																			
Single 1 3/4x14"	HHU14	3580																																			
or larger																																					
H10 TOP MOUNT DOUBLE MEMBER HANGER  <table><tr><th>Header</th><th>Hanger</th><th>Maximum Load (lbs.)</th></tr><tr><td>DBL-1 3/4x9 1/2"</td><td>W9-2 or MIT 9-2</td><td>2000</td></tr><tr><td>DBL-1 3/4x9 1/2"</td><td>GLT 3.59</td><td>6320</td></tr><tr><td>DBL-1 3/4x11 7/8"</td><td>W11-2 or MIT 11-2</td><td>2000</td></tr><tr><td>DBL-1 3/4x11 7/8"</td><td>GLTV 3.511</td><td>7000</td></tr><tr><td>DBL-1 3/4x14"</td><td>HGLTV 3.514</td><td>9300</td></tr><tr><td>DBL-1 3/4x16"</td><td>HGLTV 3.516</td><td>10500</td></tr><tr><td>DBL-1 3/4x18"</td><td>HGLTV 3.518</td><td>10500</td></tr></table>	Header	Hanger	Maximum Load (lbs.)	DBL-1 3/4x9 1/2"	W9-2 or MIT 9-2	2000	DBL-1 3/4x9 1/2"	GLT 3.59	6320	DBL-1 3/4x11 7/8"	W11-2 or MIT 11-2	2000	DBL-1 3/4x11 7/8"	GLTV 3.511	7000	DBL-1 3/4x14"	HGLTV 3.514	9300	DBL-1 3/4x16"	HGLTV 3.516	10500	DBL-1 3/4x18"	HGLTV 3.518	10500	H11 FACE MOUNT DOUBLE MEMBER HANGER  <table><tr><th>Header</th><th>Hanger</th><th>Maximum Load (lbs.)</th></tr><tr><td>DBL-1 3/4x9 1/2"</td><td>HHU410</td><td>2435</td></tr><tr><td>DBL-1 3/4x11 7/8"</td><td>HHU414</td><td>3130</td></tr><tr><td>DBL-1 3/4x14"</td><td>HHU416</td><td>3475</td></tr></table>	Header	Hanger	Maximum Load (lbs.)	DBL-1 3/4x9 1/2"	HHU410	2435	DBL-1 3/4x11 7/8"	HHU414	3130	DBL-1 3/4x14"	HHU416	3475
Header	Hanger	Maximum Load (lbs.)																																			
DBL-1 3/4x9 1/2"	W9-2 or MIT 9-2	2000																																			
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H12 TOP MOUNT TRIPLE MEMBER HANGER  <table><tr><th>Header</th><th>Hanger</th><th>Maximum Load (lbs.)</th></tr><tr><td>TRPL-1 3/4x9 1/2"</td><td>HGLTV 5.59</td><td>9480</td></tr><tr><td>TRPL-1 3/4x11 7/8"</td><td>HGLTV 5.511</td><td>10500</td></tr><tr><td>TRPL-1 3/4x14"</td><td>HGLTV 5.514</td><td>10500</td></tr><tr><td>TRPL-1 3/4x16"</td><td>HGLTV 5.516</td><td>10500</td></tr><tr><td>TRPL-1 3/4x18"</td><td>HGLTV 5.518</td><td>10500</td></tr></table>	Header	Hanger	Maximum Load (lbs.)	TRPL-1 3/4x9 1/2"	HGLTV 5.59	9480	TRPL-1 3/4x11 7/8"	HGLTV 5.511	10500	TRPL-1 3/4x14"	HGLTV 5.514	10500	TRPL-1 3/4x16"	HGLTV 5.516	10500	TRPL-1 3/4x18"	HGLTV 5.518	10500	H13 FACE MOUNT TRIPLE MEMBER HANGER  <table><tr><th>Header</th><th>Hanger</th><th>Maximum Load (lbs.)</th></tr><tr><td>TRPL-1 3/4x9 1/2"</td><td>HHU610</td><td>2435</td></tr><tr><td>TRPL-1 3/4x11 7/8"</td><td>HHU612</td><td>2780</td></tr><tr><td>TRPL-1 3/4x14"</td><td>HHU614</td><td>3130</td></tr><tr><td>TRPL-1 3/4x16"</td><td>HHU616</td><td>3475</td></tr><tr><td>TRPL-1 3/4x18"</td><td>HHU616</td><td>3475</td></tr></table>	Header	Hanger	Maximum Load (lbs.)	TRPL-1 3/4x9 1/2"	HHU610	2435	TRPL-1 3/4x11 7/8"	HHU612	2780	TRPL-1 3/4x14"	HHU614	3130	TRPL-1 3/4x16"	HHU616	3475	TRPL-1 3/4x18"	HHU616	3475
Header	Hanger	Maximum Load (lbs.)																																			
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TRPL-1 3/4x18"	HHU616	3475																																			

NOTE:

Hanger capacities listed may be less than the capacity of the MICRO=LAM® L.V.L., therefore all applications should be checked for the needed capacity.

- Maximum loads assume all nail holes used with proper nails.

- In some cases hanger maximum loads may be increased for load duration.
- Hangers illustrated above are manufactured by Simpson Strong-Tie Company, Inc. For additional application and hanger capacities, please refer to Simpson Catalog of Connectors for use with Residential Trus Joist Products.

MICRO=LAM® L.V.L. ALLOWABLE LOAD (FLOOR)

TABLE 6 – ALLOWABLE LOAD LBS./LIN. FOOT (PLF)

	One-1½"x5½"		One-1½"x7¼"		One-1½"x9½"		One-1½"x11½"		One-1½"x14"		One-1½"x16"		One-1½"x18"	
SPAN (ft.)	LIVE LOAD	TOTAL LOAD	LIVE LOAD	TOTAL LOAD	LIVE LOAD	TOTAL LOAD	LIVE LOAD	TOTAL LOAD	LIVE LOAD	TOTAL LOAD	LIVE LOAD	TOTAL LOAD	LIVE LOAD	TOTAL LOAD
6	305	458	660	865	1353	1419		1964		2539		3192		3990
7	197	295	431	635	903	1043		1570		1995		2455		2993
8	134	201	296	444	629	798	1144	1202		1625		1995		2394
9	95	142	211	317	454	631	837	949		1284		1640		1995
10	70	104	156	234	338	507	629	769	981	1040		1329		1649
11	53	79	118	177	258	387	484	636	760	860	1085	1098		1363
12	41	61	92	138	201	301	379	534	599	722	861	923		1145
13			73	109	160	239	302	454	480	615	694	786	952	976
14			58	88	129	193	245	367	390	531	566	678	781	841
15			48	71	105	158	201	301	321	462	468	590	647	733
16			39	59	87	131	167	250	268	401	390	519	542	644
17					73	109	140	210	225	338	329	460	458	570
18					62	93	119	178	191	286	280	410	390	509
19					53	79	101	152	163	245	240	360	335	457
20					45	68	87	131	141	211	207	311	290	412
21					39	59	76	113	122	183	180	270	252	374
22									107	160	157	236	221	331
23									94	141	138	207	194	292
24									83	124	122	183	172	258
25											109	163	153	229
26											97	145	136	205

1. To size a beam for use in a floor it is necessary to check both live load and total load. Make sure the selected beam will work in both columns.
2. Live load column is based on deflection of L/360. Check local code for other deflection criteria.
3. Total load column limits deflection to L/240.
4. For deflection limits of L/240 and L/480 multiply loads shown in L/360 column by 1.5 and 0.75 respectively.
5. When no live load is shown, total load controls.

NOTES

- This table is based on uniform loads and simple spans.
- Table is for one beam. When properly fastened together, double the values for two beams, triple for three, etc. When top loaded, fasten together with a minimum of two rows of 16d nails at 12" o.c. **Use three rows of 16d nails at 12" o.c. for 14", 16" and 18" beams.** For side loaded beams, see Table 7.
- MICRO=LAM® L.V.L. beams are made without camber and will deflect under load.
- Assumes continuous lateral support of the compression edge of the beam.
- Lateral support required at bearing points.
- Bearing area to be calculated for specific application. See page 16.
- **16" and 18" deep beams are to be used in multiple member units only.**

TABLE 7 – SIDE LOADED MICRO=LAM® L.V.L. CONNECTION FOR MULTIPLE MEMBER UNITS

MAXIMUM UNIFORM LOAD APPLIED TO OUTSIDE MEMBER (lbs. per lin. foot)					
No. of pieces	° NAILED CONNECTION ⁽²⁾		THROUGH BOLTED CONNECTION ⁽³⁾		
	2 rows 16d common wire at 12" o.c.	3 rows 16d common wire at 12" o.c.	2 rows ½" bolts at 24" o.c. staggered	2 rows ½" bolts at 12" o.c.	2 rows ½" bolts at 6" o.c.
2	420	630	580	1160	2320
3	320	480	440	880	1760
4	NOT RECOMMENDED		Should only be used when loads are applied to both sides of the members.		
			390	780	1560

NOTES

- Verify adequacy of beam in Table 6 or Table 8.
 - Values listed are for 100% stress level. Increase 15% for snow loaded roof conditions; increase 25% for non-snow roof conditions.
 - Other connections are possible with specific design by the design professional.
- (1) For a three-piece member, the nailing specified is from each side for a total of 6 nails/foot (3 from each side).
 - (2) "Nailed connection" values may be doubled for 6" o.c. or tripled for 4" o.c.
 - (3) Bolt holes are to be the same diameter as the bolt and located 2" from the top and bottom of the member.

TABLE 8 – ALLOWABLE LOAD LBS./LIN. FT. (PLF)

Total load column limits deflection to L/180. For stiffer criteria, check L/240 column.
CHECK LOCAL CODE FOR DEFLECTION CRITERIA.

SPAN (ft.)	One-1½"x5½"			One-1½"x7¼"			One-1½"x9½"			One-1½"x11½"		
	TOTAL LOAD		DEFL.	TOTAL LOAD		DEFL.	TOTAL LOAD		DEFL.	TOTAL LOAD		DEFL.
	Snow (115%)	Non- Snow (125%)	L/240	Snow (115%)	Non- Snow (125%)	L/240	Snow (115%)	Non- Snow (125%)	L/240	Snow (115%)	Non- Snow (125%)	L/240
4	1348	1465	1402	1986	2159		3006	3268		4494	4885	
5	863	938	764	1432	1556		2126	2311		3006	3268	
6	599	611	458	994	1081	989	1632	1774		2259	2455	
7	393	393	295	730	794	646	1199	1303		1805	1962	
8	267	267	201	559	591	444	918	998	943	1382	1502	
9	190	190	142	423	423	317	725	788	681	1092	1187	
10	139	139	104	312	312	234	587	639	507	884	961	943
11	105	105	79	236	236	177	486	516	387	731	795	725
12	81	81	61	183	183	138	402	402	301	614	668	569
13	64	64	48	145	145	109	319	319	239	523	569	454
14	52	52	39	117	117	88	257	257	193	451	490	367
15	42	42	31	95	95	71	211	211	158	393	402	301
16				79	79	59	174	174	131	334	334	250
17				66	66	49	146	146	109	280	280	210
18				56	56	42	123	123	93	237	237	178
19				47	47	35	105	105	79	203	203	152
20				41	41	30	90	90	68	174	174	131
21							78	78	59	151	151	113
22							68	68	51	132	132	99
23							60	60	45	116	116	87
24							53	53	40	102	102	77
25							47	47	35	90	90	68
26							42	42	31	81	81	60
27										72	72	54
28										65	65	49
29										58	58	44
30										53	53	40

MICRO=LAM® L.V.L. DESIGN PROPERTIES

SIZE	Maximum Vertical Shear (lbs.)			Maximum Resistive Moment (ft.-lbs.)			Moment of Inertia (in. ⁴)	Weight (lbs./ft.) ⁽¹⁾
	100%	115%	125%	100%	115%	125%		
1½"x5½"	1830	2105	2285	2345	2695	2930	25	2.50
1½"x7¼"	2410	2770	3010	3890	4475	4860	55	3.25
1½"x9½"	3160	3630	3950	6385	7345	7980	125	4.25
1½"x11½"	3950	4540	4940	9615	11055	12015	245	5.30
1½"x14"	4655	5355	5820	13000	14950	16250	400	6.25
1½"x16"	5320	6120	6650	16605	19100	20760	595	7.15
1½"x18"	5985	6880	7480	20610	23700	25760	850	8.00

ALLOWABLE DESIGN STRESSES

Modulus of elasticity	E	= 2.0x10 ⁶ psi
Flexural stress	F _b *	= 2800 psi
Tension parallel to grain	F _t	= 1850 psi
Compression perpendicular to grain	F _c	= 500 psi
Compression parallel to grain	F _{cl}	= 2700 psi
Horizontal shear perpendicular to glue line	F _v	= 285 psi

*For 12-inch depth. For other depths, multiply by $\left[\frac{12}{d}\right]^{\frac{1}{6}}$
*See NER 126 for additional design information.

*Assumes continuous lateral support of top of beam (simple span applications).

⁽¹⁾ Weights shown are for Douglas Fir MICRO=LAM® L.V.L. For Southern Yellow Pine MICRO=LAM® L.V.L., increase weight approximately 10%.

ALLOWABLE LOAD (ROOF)

One-1½"x14"			One-1½"x16"*			One-1½"x18"*			SPAN (ft.)
TOTAL LOAD		DEFL.	TOTAL LOAD		DEFL.	TOTAL LOAD		DEFL.	
Snow (115%)	Non-Snow (125%)	L/240	Snow (115%)	Non-Snow (125%)	L/240	Snow (115%)	Non-Snow (125%)	L/240	
6424	6983		9177	9975					4
4015	4364		5244	5700		6883	7481		5
2920	3174		3671	3990		4588	4988		6
2294	2494		2824	3069		3441	3741		7
1869	2031		2294	2494		2753	2993		8
1477	1605		1886	2050		2294	2494		9
1196	1300		1528	1661		1896	2061		10
988	1074		1263	1372		1567	1703		11
831	903	899	1061	1153		1317	1431		12
708	769	720	904	983		1122	1219		13
610	663	586	779	847		967	1051		14
532	578	482	679	738	701	843	916		15
467	508	401	597	649	586	741	805		16
414	450	338	529	575	494	656	713	687	17
369	382	286	472	513	420	585	636	586	18
327	327	245	423	460	360	525	571	503	19
282	282	211	382	414	311	474	515	435	20
244	244	183	346	360	270	430	467	379	21
213	213	160	315	315	236	392	426	331	22
187	187	141	277	277	207	358	389	292	23
166	166	124	244	244	183	329	344	258	24
147	147	110	217	217	163	303	306	229	25
131	131	98	194	194	145	273	273	205	26
117	117	88	173	173	130	244	244	183	27
105	105	79	156	156	117	220	220	165	28
95	95	71	141	141	105	198	198	149	29
86	86	64	127	127	95	180	180	135	30

NOTES

- This table is based on uniform loads and simple spans.
- Table is for one beam. When properly fastened together, double the values for two beams, triple for three. When top loaded, fasten together with a minimum of two rows of 16d nails at 12" o.c. **Use three rows of 16d nails at 12" o.c. for 14", 16" and 18" beams.** For side loaded beams, see Table 7.
- MICRO-LAM® lumber beams are made without camber; therefore, in addition to complying with the deflection limits of the applicable Building Code, other deflection considerations

should be evaluated such as ponding (positive drainage is essential) and aesthetics.

- Roof members should either be sloped for drainage or designed to account for load and deflection as specified in the applicable Building Code.
- Assumes continuous lateral support of the top edge of beam.
- Lateral support required at bearing points.
- Bearing area to be calculated for specific application. See page 16.

***16" and 18" deep beams are to be used in multiple member units only.**

Trus Joist Corporation has over 200 salesmen in 100 offices throughout the United States and Canada. Check your yellow pages or contact one of the regional offices listed to find the salesman nearest you.

1 Canadian Operations
Trus Joist Canada, Ltd.
#5, 15355-102A Avenue
Surrey, British Columbia
Canada V3R 7K1
(604) 588-7878

2 Trus Joist Canada, Ltd.
#210, 10335-178 Street
Edmonton, Alberta
Canada T5S 1R5
(403) 489-8800

3 Trus Joist Canada, Ltd.
One Ashbridge Circle
Unit 3C
Woodbridge, Ontario
Canada L4L 1A5
(416) 856-2728

4 Trus Joist Canada, Ltd.
6363 Trans Canada Highway
Unit 113
St. Laurent, Quebec
Canada H4T 1Z9
(514) 744-0576

5 Western Operations
Trus Joist Corporation
3210 East Amity Road
Boise, Idaho 83705
(208) 343-7771

6 Trus Joist Corporation
10130 SW Nimbus, Suite D3
Portland, Oregon 97223
(503) 620-9490

7 Trus Joist Corporation
4125 Mohr Avenue, Suite G-H
Pleasanton, California 94566
(415) 484-3930

8 Trus Joist Corporation
4111 82nd Street
Sacramento, California 95826
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9 Pacific Inland Operations
Trus Joist Corporation
2600 East Amity Road
Boise, Idaho 83706
(208) 343-7772

10 Intermountain Regional Office
2090 South Cole Road
Boise, Idaho 83709
(208) 322-4931

11 Trus Joist Corporation
2100 W. Orangewood Ave.
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Orange, California 92668
(714) 937-5055

12 Trus Joist Corporation
14125 Telephone Ave., Suite D5
Chino, California 91710
(714) 628-6772

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Trus Joist Corporation
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104 Centre Boulevard, Ste. A
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1101 Woodridge Center Dr.
Suite 114
Charlotte, North Carolina 28217
(704) 357-3291

20 Trus Joist Corporation
1645 Murfreesboro Road, Suite 1
Nashville, Tennessee 37217
(615) 399-2184

21 Trus Joist Corporation
5444 Bay Center Drive, Suite 200
Tampa, Florida 33609
(813) 286-2665

★ Indicates Operations Group General Offices



TRUS JOIST CORPORATION

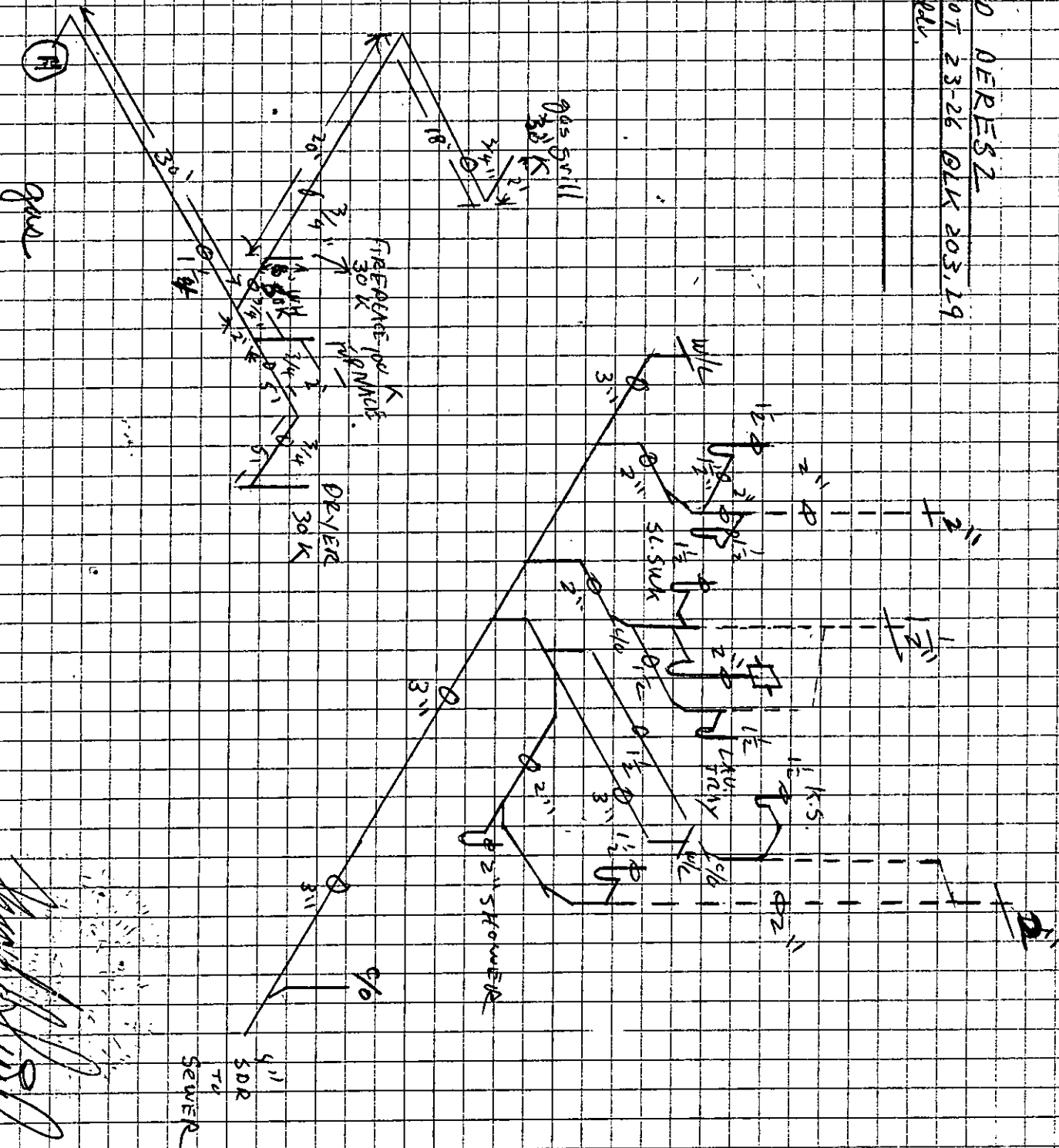
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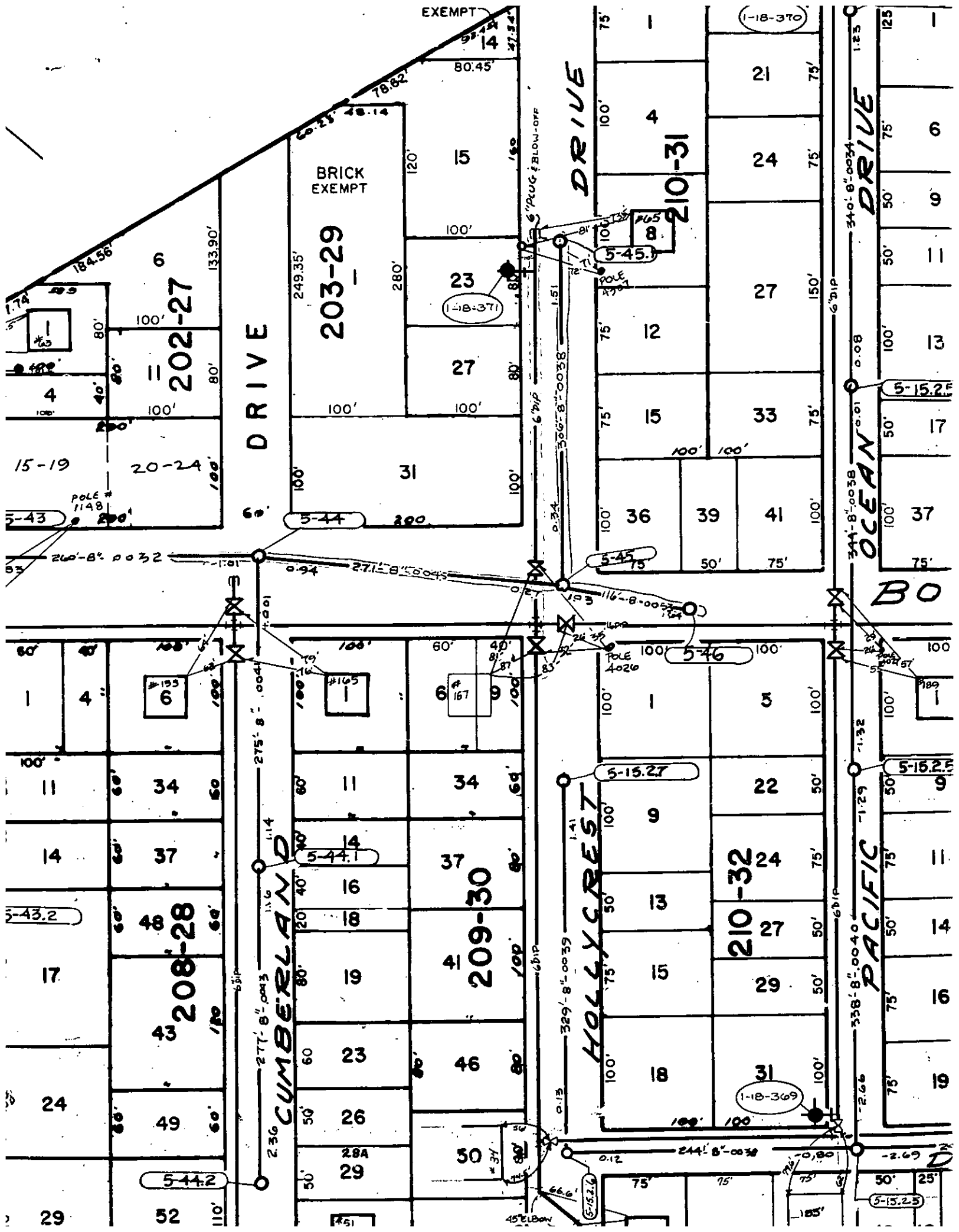
9777 West Chinden Blvd. (83714)
P.O. Box 60 Boise, Idaho 83707
(208) 375-4450

Call for the dealer nearest you:
1-800-338-0515

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TJ International, Boise, Idaho.

ED 0ERES2
LOT 23-26 BLK 203, 19
WAL.





SIZING FOR WATER AND SEWER SERVICES

Property Owner _____ Date 5-26-93
Property Address 64 Holly Crest Dr. Block 203.29 Lot 23-26
Zoning _____ Use Group _____
Contractor _____ License No. Registration _____
Water Main Size _____ Water Pressure _____ Sewer Main Size _____

<u>Plumbing Fixtures</u>	<u>Number</u>	<u>(sfu) Water Units</u>	<u>(dfu) Drainage Units</u>
1. Water Closet	<u>2</u>	() <u>6</u>	() _____
2. Lavatory	<u>2</u>	() <u>2</u>	() _____
3. Bath Tub	<u>1</u>	() <u>2</u>	() _____
4. Shower Stall	<u>1</u>	() <u>2</u>	() _____
5. Kitchen Sink	<u>1</u>	() <u>2</u>	() _____
6. Service Sink	_____	() _____	() _____
7. Laundry Tray	<u>2</u>	() <u>6</u>	() _____
8. Dishwasher	<u>1</u>	() <u>1</u>	() _____
9. Washing Machine	<u>1</u>	() <u>3</u>	() _____
10. Urinal	_____	() _____	() _____
11. Floor Drain	_____	() _____	() _____
12. Drinking Fountain	_____	() _____	() _____
13. Air Conditioner (water cooled)	_____	() _____	() _____
14. Dental Unit	_____	() _____	() _____
15. Lawn Sprinkler No. of Heads	_____	() _____	() _____
16. Fire Sprinkler No. of Heads	_____	() _____	() _____
17. _____	_____	() _____	() _____
18. _____	_____	() _____	() _____

Total 24
Gallons per minute 16.4
Size of Service 1"

Date: 5-26-93

Approved: [Signature]
Brick Township Plumbing Inspector

SIZING FOR WATER AND SEWER SERVICES

Property Owner _____ Date 5-26-93
 Property Address 64 Holly Crest Dr. Block 203.29 Lot 23-26
 Zoning _____ Use Group _____
 Contractor _____ License No. Registration _____
 Water Main Size _____ Water Pressure _____ Sewer Main Size _____

<u>Plumbing Fixtures</u>	<u>Number</u>	<u>(sfu)</u>	<u>Water Units</u>	<u>(dfu)</u>	<u>Drainage Units</u>
1. Water Closet	<u>2</u>	()	<u>6</u>	()	
2. Lavatory	<u>2</u>	()	<u>2</u>	()	
3. Bath Tub	<u>1</u>	()	<u>2</u>	()	
4. Shower Stall	<u>1</u>	()	<u>2</u>	()	
5. Kitchen Sink	<u>1</u>	()	<u>2</u>	()	
6. Service Sink		()		()	
7. Laundry Tray	<u>2</u>	()	<u>6</u>	()	
8. Dishwasher	<u>1</u>	()	<u>1</u>	()	
9. Washing Machine	<u>1</u>	()	<u>3</u>	()	
10. Urinal		()		()	
11. Floor Drain		()		()	
12. Drinking Fountain		()		()	
13. Air Conditioner (water cooled)		()		()	
14. Dental Unit		()		()	
15. Lawn Sprinkler No. of Heads		()		()	
16. Fire Sprinkler No. of Heads		()		()	
17. _____		()		()	
18. _____		()		()	

Total 24
 Gallons per minute 16.4
 Size of Service 1"

Date: 5-26-93

Approved: [Signature]
 Brick Township Plumbing Inspector

State of N.J.
Name of Enforcing Agency
Brick
Municipality of
Ocean
County

Edward Meresz
Name of Owner(s) in Fee
64 Hollycrest Dr.
Address
203.29 23/26
Block Lot

AFFIDAVIT
in Support of Application
for a Construction Permit and
for a Certificate of Occupancy
Pursuant to N.J.A.C.
5:23-2.5(b) 2:1 and 5:23-2.7(b)3

I am an applicant for:

- ☐ A Construction Permit
☒ A Certificate of Occupancy

I being the Owner in Fee and being of full age, duly sworn upon my oath depose and say that a new home (will be) (has been) constructed on this property for personal use and occupancy by me.

I hereby attest that all design, constuction, plumbing or electrical work (will be)(has been) done by me or by subcontractors under my supervision, in accordance with all applicable laws; and I further acknowledge that said new home is not covered under the New Home Warranty and Builders' Registration Act (N.J.S.A. 46:3B et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

Edward Meresz
Signature

Sworn and Subscribed to
before me this 15 Day of Oct 1993

Despina R. Lines

DESPINA R. LINES
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires March 13, 1994

ELEVATION CERTIFICATE
FEDERAL EMERGENCY MANAGEMENT AGENCY
NATIONAL FLOOD INSURANCE PROGRAM

O.M.B. No 3067-0077
Expires May 31, 1993

ATTENTION: Use of this certificate does not provide a waiver of the flood insurance purchase requirement. This form is used only to provide elevation information necessary to ensure compliance with applicable community floodplain management ordinances, to determine the proper insurance premium rate, and/or to support a request for a Letter of Map Amendment or Revision (LOMA or LOMR). Instructions for completing this form can be found on the following pages.

SECTION A PROPERTY INFORMATION		FOR INSURANCE COMPANY USE
BUILDING OWNER'S NAME <u>Edward Deresz</u>	POLICY NUMBER	
STREET ADDRESS (Including Apt., Unit, Suite and/or Bldg. Number) OR P.O. ROUTE AND BOX NUMBER <u>Hollycrest Drive</u>	COMPANY NAIC NUMBER	
OTHER DESCRIPTION (Lot and Block Numbers, etc.) <u>Lots 23-26 Block 203.29</u>		
CITY <u>Brick Township</u>	STATE <u>Ocean County</u>	ZIP CODE <u>N.J. 08723</u>

SECTION B FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

Provide the following from the proper FIRM (See Instructions):

1. COMMUNITY NUMBER	2. PANEL NUMBER	3. SUFFIX	4. DATE OF FIRM INDEX	5. FIRM ZONE	6. BASE FLOOD ELEVATION (In AO Zones, use depth)
<u>345285</u>	<u>0007</u>	<u>D</u>	<u>July 15, 1992</u>	<u>A-5</u>	<u>6 ft.</u>

7. Indicate the elevation datum system used on the FIRM for Base Flood Elevations (BFE): ☒ NGVD '29 ☐ Other (describe on back)
8. For Zones A or V, where no BFE is provided on the FIRM, and the community has established a BFE for this building site, indicate the community's BFE: feet NGVD (or other FIRM datum—see Section B, Item 7).

SECTION C BUILDING ELEVATION INFORMATION

1. Using the Elevation Certificate Instructions, indicate the diagram number from the diagrams found on Pages 5 and 6 that best describes the subject building's reference level 8.
- 2(a). FIRM Zones A1-A30, AE, AH, and A (with BFE). The top of the reference level floor from the selected diagram is at an elevation of 10 feet NGVD (or other FIRM datum—see Section B, Item 7).
- (b). FIRM Zones V1-V30, VE, and V (with BFE). The bottom of the lowest horizontal structural member of the reference level from the selected diagram, is at an elevation of feet NGVD (or other FIRM datum—see Section B, Item 7).
- (c). FIRM Zone A (without BFE). The floor used as the reference level from the selected diagram is feet above ☐ or below ☐ (check one) the highest grade adjacent to the building.
- (d). FIRM Zone AO. The floor used as the reference level from the selected diagram is feet above ☐ or below ☐ (check one) the highest grade adjacent to the building. If no flood depth number is available, is the building's lowest floor (reference level) elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown
3. Indicate the elevation datum system used in determining the above reference level elevations: ☒ NGVD '29 ☐ Other (describe under Comments on Page 2). (NOTE: If the elevation datum used in measuring the elevations is different than that used on the FIRM [see Section B, Item 7], then convert the elevations to the datum system used on the FIRM and show the conversion equation under Comments on Page 2.)
4. Elevation reference mark used appears on FIRM: ☐ Yes ☒ No (See Instructions on Page 4) Local Control
5. The reference level elevation is based on: ☒ actual construction ☐ construction drawings
(NOTE: Use of construction drawings is only valid if the building does not yet have the reference level floor in place, in which case this certificate will only be valid for the building during the course of construction. A post-construction Elevation Certificate will be required once construction is complete.)
6. The elevation of the lowest grade immediately adjacent to the building is: 18 feet NGVD (or other FIRM datum—see Section B, Item 7).

SECTION D COMMUNITY INFORMATION

1. If the community official responsible for verifying building elevations specifies that the reference level indicated in Section C, Item 1 is not the "lowest floor" as defined in the community's floodplain management ordinance, the elevation of the building's "lowest floor" as defined by the ordinance is: feet NGVD (or other FIRM datum—see Section B, Item 7).
2. Date of the start of construction or substantial improvement 5-18-93

SECTION E CERTIFICATION

This certification is to be signed by a land surveyor, engineer, or architect who is authorized by state or local law to certify elevation information when the elevation information for Zones A1-A30, AE, AH, A (with BFE), V1-V30, VE, and V (with BFE) is required. Community officials who are authorized by local law or ordinance to provide floodplain management information, may also sign the certification. In the case of Zones AO and A (without a FEMA or community issued BFE), a building official, a property owner, or an owner's representative may also sign the certification.

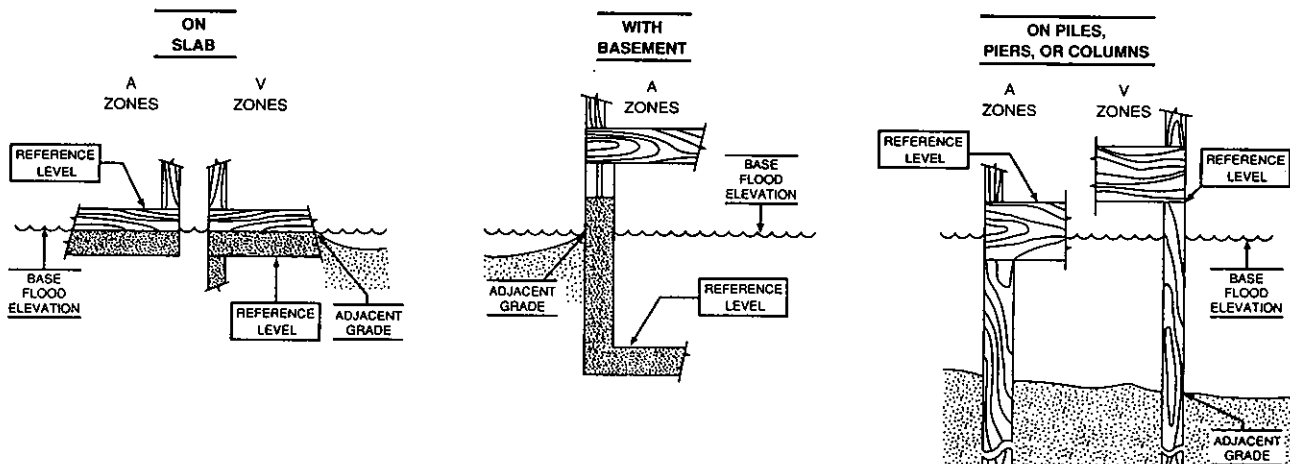
Reference level diagrams 6, 7 and 8 - Distinguishing Features-If the certifier is unable to certify to breakaway/non-breakaway wall, enclosure size, location of servicing equipment, area use, wall openings, or unfinished area Feature(s), then list the Feature(s) not included in the certification under Comments below. The diagram number, Section C, Item 1, must still be entered.

*I certify that the information in Sections B and C on this certificate represents my best efforts to interpret the data available.
I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

CERTIFIER'S NAME		LICENSE NUMBER (or Affix Seal)	
Bernard M. Collins		29181	
TITLE		COMPANY NAME	
Licensed Land Surveyor		Delco Land Surveying Corp.	
ADDRESS		CITY	STATE
509 Main Street		Toms River	N.J.
SIGNATURE		DATE	PHONE
<i>Bernard M. Collins / R</i>		10/14/93	(908) 341-4200
ZIP			
08754			

Copies should be made of this Certificate for: 1) community official, 2) insurance agent/company, and 3) building owner.

COMMENTS: _____



The diagrams above illustrate the points at which the elevations should be measured in A Zones and V Zones.

Elevations for all A Zones should be measured at the top of the reference level floor.

Elevations for all V Zones should be measured at the bottom of the lowest horizontal structural member.

**THE BRICK TOWNSHIP
MUNICIPAL UTILITIES AUTHORITY**
1551 HIGHWAY 88 WEST
BRICK, NEW JERSEY 08724
458-7000

CERTIFICATE OF COMPLIANCE

Date.....October 5, 1993.....

NAME.....Edward Derez.....

ADDRESS.....29 NAVARRA Drive, Brick, NJ 08723.....

PROPERTY LOCATION.....64 Hollycrest Drive.....

Account No.....D461606..... Block.....203..29.. Lot.....23..26...

I hereby certify that the above applicant has complied with all Rules
and Regulations of this Authority and has paid all required fees and charges.

For the Authority.....*Marilyn Schopf*.....

THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

1551 HIGHWAY 88 EAST
BRICK, NEW JERSEY 08724
(908) 458-7000

STATEMENT OF UTILITY SERVICES

APPLICANT: NAME: Edward Deresz PHONE NO. _____ (bus.)
ADDRESS: 29 Navarra Drive 920-1168 (home)
Brick, NJ 08723

PROPERTY IN QUESTION: ADDRESS Hollycrest Drive
BLOCK(S) 208.29 LOT(S) 23-28
BTMUA ACCOUNT NO. D461606 TAX MAP DRAWING NO. Z1A

SINGLE FAMILY RESIDENCE X MINOR SUBDIVISION _____
COMMERCIAL _____ MAJOR SUBDIVISION _____

1. UTILITY SERVICE CAN BE PROVIDED. APPLICATION FOR SERVICE IS
REQUIRED.

WATER	SEWER
<u>X</u>	<u>X</u>

CONNECTION WILL BE PROVIDED AS FOLLOWS:

INITIAL SERVICE CHARGES

WATER HOLLYCREST DRIVE 3/4" 1379.00 1" 2405.00
(STREET)

SEWER HOLLYCREST DRIVE 1973.00
(STREET)

2. UTILITY SERVICE CANNOT BE PROVIDED AT THIS DATE.
APPLICATION FOR EXTENSION IS ☐ IS NOT ☐ REQUIRED.

3. UTILITY SERVICE CANNOT BE PROVIDED AT THIS DATE. IT SHALL BE
AVAILABLE UPON COMPLETION OF WORK BY A DEVELOPER UNDER
APPLICATION NO. _____ CONTACT THE AUTHORITY
TO CONFIRM AVAILABILITY OF SERVICES.

DATE: 5/18/93 SIGNED: Faiz M. S. Siddiqui

NOTE: STATEMENT GOOD FOR ONE YEAR.

UTILITY SERVICES FOR NEW HOMES

1. OBTAIN "STATEMENT OF UTILITY SERVICES" AND SIZING SHEET AT BTMUA
2. FILL OUT SIZING SHEET AND HAVE APPROVED BY THE BRICK TOWNSHIP PLUMBING INSPECTOR.
3. APPLICATION FOR UTILITIES SHOULD BE MADE TO BTMUA AS EARLY AS POSSIBLE, AT WHICH TIME THE SIZING SHEET, SIGNED BY THE TOWNSHIP PLUMBING INSPECTOR, MUST BE SUBMITTED.

APPLICATIONS WITHOUT THE SIGNED SIZING SHEET WILL NOT BE ACCEPTED.

LEAD TIME FOR TAPS TO BE INSTALLED IS BETWEEN 8 AND 12 WEEKS, WEATHER PERMITTING; HOWEVER, TAPS WILL NOT BE SCHEDULED FOR INSTALLATION UNTIL AT LEAST A FOUNDATION EXISTS. FOR INFORMATION ON SCHEDULED INSTALLATIONS, CONTACT THE AUTHORITY OPERATIONS OFFICE.

4. AFTER THE TAPS HAVE BEEN INSTALLED, SEWER AND WATER SERVICE PERMITS ARE TO BE OBTAINED AT THE BTMUA (PERMIT FEE OF \$15 FOR EACH SERVICE).
5. ONCE YOUR SERVICE LINES HAVE BEEN CONNECTED, CALL THE CUSTOMER ACCOUNT DIVISION AT BTMUA TO ARRANGE FOR AN OUTSIDE INSPECTION.
6. **CERTIFICATE OF COMPLIANCE**

THE C.C. WILL BE ISSUED AFTER THE METER IS INSTALLED AND ALL REQUIREMENTS MET, AT WHICH TIME ALL FEES MUST BE PAID IN FULL.

INSPECTOR: MURTAGH JAMES

DATE: 9-22-93

JOB:

SECTION:

TYPE OF WORK: FENCE

WEATHER:

CLOUDS

LOCATION: 64 HOLLYCREST

TEMPERATURE:

79°

BLOCK: 203.29

LOT: 23-26

**ENGINEERING RECOMMENDATIONS FOR
CERTIFICATE OF OCCUPANCY
INSPECTION CHECK LIST**

ITEMS TO BE COMPLETED	COMPLETED	DEFICIENT
1. Driveway	X	
2. Grading	X	
3. Sidewalk	X	
4. Road Pavement		X
5. Landscaping & Sodding	X	
6. Clean-up Procedures	X	
7. Note on going construction in immediate area	X	
8. Safety		X

COMMENTS REFERENCING ITEM NUMBER: #4. ROAD MUST BE REPAIRED AT CURB AREA
#8. LOT TO RITE SIDE MUST BE GRADED AT PROPERTY LINE.
ALSO NEW PLOT PLAN REQUIRED

RECOMMENDATIONS:☐ TEMP. C.O.☐ FINAL C.O.☒ DETAILED REINSPECTION☐ HOLD INSPECTION UNTIL LOT ELEVATION FIELD VERIFIED

PLANNING BOARD ENGINEER

MUNICIPAL ENGINEER

I _____, Authorized representative of _____, hereby acknowledge the above deficiencies, and further realize that the Certificate of Occupancy will be conditioned upon the acceptable resolution thereof within _____ days of the issuance of Certificate of Occupancy.

INSPECTOR: *George Riva*DATE: *10/13/93*JOB: *1*SECTION: *1*TYPE OF WORK: *Final Eng.*WEATHER: *the Sunny*LOCATION: *64 Holly Creek*TEMPERATURE: *55°*BLOCK: *203.*LOT: *23.-26***ENGINEERING RECOMMENDATIONS FOR
CERTIFICATE OF OCCUPANCY
INSPECTION CHECK LIST**

ITEMS TO BE COMPLETED	COMPLETED	DEFICIENT
1. Driveway	<i>✓</i>	
2. Grading	<i>✓</i>	
3. Sidewalk	<i>✓</i>	
4. Road Pavement	<i>✓</i>	
5. Landscaping & Sodding	<i>✓</i>	
6. Clean-up Procedures	<i>✓</i>	
7. Note on going construction in immediate area	<i>✓</i>	
8. Safety	<i>✓</i>	

COMMENTS REFERENCING ITEM NUMBER:

RECOMMENDATIONS:

☐ TEMP. C.O.☒ FINAL C.O.☐ DETAILED REINSPECTION☐ HOLD INSPECTION UNTIL LOT ELEVATION FIELD VERIFIED PLANNING BOARD ENGINEER

[Signature]

 MUNICIPAL ENGINEER

I, _____, Authorized representative of _____, hereby acknowledge the above deficiencies, and further realize that the Certificate of Occupancy will be conditioned upon the acceptable resolution thereof within _____ days of the issuance of Certificate of Occupancy.