

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING INSPECTION

Permit Number: 030017

Please Read Application And Notes, If Any, Attached

PERMIT DBB

This is to certify that Ho Duc N & /Maplewood Development
has permission to Amendment to permit # 0208 change plans.
AT 249 St John St 064 D006001

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and work in progress must be reported before this building or part thereof is occupied or otherwise used-in. HOUR NOTIFICATION REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. [Signature]
Health Dept. _____
Appeal Board _____
Other _____
Department Name _____

[Signature] 1/30/05
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 03-0017	Issue Date:	CBL: 064 D006001
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Location of Construction: 249 St John St	Owner Name: Ho Duc N &	Owner Address: 17 Allen Rd	Phone: 207-772-3038
Business Name: n/a	Contractor Name: Maplewood Development	Contractor Address: Box 130 Eliot	Phone: 2072520162
Lessee/Buyer's Name n/a	Phone: n/a	Permit Type: Amendment to Commercial	Zone: B-2

Past Use: Commercial	Proposed Use: Commercial / Amendment to permit # 020898. Change in structural plans.	Permit Fee: \$30.00	Cost of Work: \$0.00	CEO District: 3
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: <i>B 2ND FLOOR</i> Type: <i>5-6</i> <i>11/30/03</i>	

Proposed Project Description:
Amendment to permit # 020898, change in structural plans.

Signature: *[Signature]* Signature: *[Signature]*

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: Approved Approved w/Conditions Denied

Signature: _____ Date: _____

Permit Taken By: gg	Date Applied For: 01/08/2003	Zoning Approval
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1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building permits do not include plumbing, septic or electrical work. 3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>1/9/03</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>9</i>
	<i>All previous zoning conditions still in effect</i>		

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 03-0017	Date Applied For: 01/08/2003	CBL: 064 D006001
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Location of Construction: 249 St John St	Owner Name: Ho Duc N &	Owner Address: 17 Allen Rd	Phone: 207-772-3038
Business Name: n/a	Contractor Name: Maplewood Development	Contractor Address: Box 130 Eliot	Phone: (207) 252-0162
Lessee/Buyer's Name: n/a	Phone: n/a	Permit Type: Amendment to Commercial	

Proposed Use: Commercial / Amendment to permit # 020898. Change in structural plans.	Proposed Project Description: Amendment to permit # 020898, change in structural plans.
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Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 01/09/2003
Note:			Ok to Issue: <input checked="" type="checkbox"/>
Dept: Building	Status: Pending	Reviewer: Mike Nugent	Approval Date:
Note:			Ok to Issue: <input type="checkbox"/>
Dept: Fire	Status: Approved	Reviewer: Lt. McDougall	Approval Date: 01/14/2003
Note:			Ok to Issue: <input checked="" type="checkbox"/>

Comments: 01/08/2003-gg: Applicant (Joe Desimone) said he faxed additional plans to Mike Nugent. /gg 01/13/2003-gg: received additional plans. /gg 01/16/2003-mjn: Need statement of design on steel., Spoke with Joe D. This date.

AMENDED

All Purpose Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>249 ST JOHN ST PORTLAND MAINE</u>		
Total Square Footage of Proposed Structure		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart# <u>064</u> Block# <u>D 006</u> Lot#	Owner: <u>DUC HO YEM LE</u>	Telephone: <u>772-3038</u>
Lessee/Buyer's Name (If Applicable)	Applicant Name, address & telephone: <u>DUC HO</u> <u>17 ALLEN ROAD</u> <u>SO PORTLAND, MAINE</u>	Cost Of Work: \$ <u>9,000</u> Fee: \$ <u>30.00</u>
Current use: <u>VACANT</u>	<u>879-1912</u>	<u>needs to pay</u>
If the location is currently vacant, what was prior use: <u>OFFICE SPACE</u> <u>when Rick</u>		
Approximately how long has it been vacant: <u>8 MONTHS</u> <u>Round II</u>		
Proposed use: <u>(SEE PREVIOUS APPLICATION ON FILE) AMEND TO ADD</u> <u>020898</u>		
Project description: <u>STRUCTURAL CHANGES SEE CONTRACTORS</u> <u>SUBMITTALS ATTACHED</u>		
Contractor's name, address & telephone: <u>MAPLEWOOD DEVELOPMENT - PHONE</u> <u>BOX 130 - ELIOT MAINE 03903</u> <u>207-408-6217</u> <u>CEL 252-0162</u>		
Who should we contact when the permit is ready: <u>DUC HO / JOE DESIMONE</u> <u>call</u>		
Mailing address: <u>249 ST JOHN ST</u> <u>PORTLAND MAINE</u>		
We will contact you by phone when the permit is ready to review the requirements before starting any work, with a \$100.00 fee if any work starts before the permit is issued. You must come in and pick up the permit and see the Plan Reviewer. A stop work order will be issued if the permit is not picked up. PHONE: <u>772-3038</u> OR <u>JOE AT 773-8373</u> <u>call</u>		

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE APPLICATION, THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

I hereby certify that I am the Owner of record of the named property and have been authorized by the owner to make this application as his/her authorized agent. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: [Signature] Date: 1/16/03

This is NOT a permit, you may not commence ANY work until the permit is issued. If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department or the 4th floor of City Hall

AMERICAN

STEEL AND ALUMIUM CORPORATION

115 Wallace Ave.- South Portland, Maine 04106 (207)772-4641 FAX (207)772-0359

1/3/2002

Certificate of Compliance

Your Purchase Order# Greg Paquette

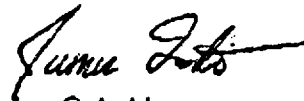
Our Work Order# 0587321

Hr WF Beam 5 x 19# x 20' A36

Hr WF Beam 5 x 19# x 40' A36

I certify that the material and process employed, to the best of my knowledge, comply with all requirements of your order, including relevant specifications and standards.

American Steel & Aluminum



Q.A. Manager

Jim Fortin

AMERICAN

STEEL AND ALUMIUM CORPORATION

115 Wallace Ave. - South Portland, Maine 04106 (207)772-4641 FAX (207)772-0359

1/3/2002

Certificate of Compliance

Your Purchase Order# Maplewood Development

Our Work Order# 0589034

Hr WF Beam 5 x 19# x 20' A36

I certify that the material and process employed, to the best of my knowledge, comply with all requirements of your order, including relevant specifications and standards.

American Steel & Aluminum



Q.A. Manager



5 WALLACE AVENUE
OUTH PORTLAND ME 04106

CALL GREG at 408-6217 or 252-0162
Just Before delivery

07 772 4641 FFAX 772 0359

CUSTOMER ORDER NUMBER	CUSTOMER REL. NO.	PROMISED DATE	INVOICE NO.	DATE SHIPPED
0598		05/20/02	0587321	

ORDER QUANTITY	SHIP QUANTITY	EQ. QUANTITY	SHIP WEIGHT	HEAT NUMBER
1 EA			380	

7024 HR WF BM 5x19x20' A36

AW CUT TO:
PIECE 193" LONG (SHIP DROP)

CREDIT CARD

ORDER QUANTITY	SHIP QUANTITY	EQ. QUANTITY	SHIP WEIGHT	HEAT NUMBER
1 EA			760	

7024 HR WF BM 5x19x40' A36

AW CUT TO:
PC. 182" LONG, 1 PC. 189" LONG
(SHIP DROP)

Attn. Warehouse: Load material on
"Passenger" side of trailer.

* Ship on Monday 05/20/02 *

RECEIVED BY	DATE RECEIVED	DRIVER	TRUCK NO.
Saw			

- LEAVE THIS PACKING LIST WITH CUSTOMER -
PACKING SLIP

BILL TO: COD CUSTOMER
* Ship Monday 05/20/02 *
ME 04106

CUST. NUMBER	ENTERED DATE	ENTERED BY	IC OF CREDIT REPORT	ORDER VALUE
0599997	05/15/02	THTDAHIT		150

CONDITIONS: SELLER REPRESENTS THAT WITH RESPECT TO THE PRODUCTION OF THE ARTICLES AND/OR THE PERFORMANCE OF SERVICES COVERED BY THIS INVOICE, IT HAS FULLY COMPLIED WITH THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED. THIS ORDER AND ITS ACCEPTANCE ARE SUBJECT TO ALL OF THE TERMS, CONDITIONS AND LIMITATIONS ON WARRANTIES OF MERCHANTABILITY AND FITNESS AS SET FORTH BELOW. SELLER'S LIABILITY FOR REFUND OR REPLACEMENT OF DEFECTIVE MATERIAL. SELLER MAKES NO WARRANTY OF MERCHANTABILITY OF THE GOODS, OF THEIR FITNESS FOR ANY PARTICULAR PURPOSE, OR OF THEIR CONFORMANCE TO BUYER'S SPECIFICATIONS. SELLER WILL REPLACE, OR REFUND THE PURCHASE PRICE OF ANY GOODS WHICH AT THE TIME OF DELIVERY TO BUYER WERE DAMAGED, DEFECTIVE, OR NOT IN ACCORDANCE WITH THE BUYER'S WRITTEN PURCHASE ORDER, PROVIDED THAT THE BUYER RECEIVES WRITTEN NOTICE BY MAIL OF SUCH DAMAGE, DEFECT OR DEVIATION WITHIN 10 DAYS. IN NO EVENT SHALL SELLER BE LIABLE FOR LABOR OR MATERIAL DAMAGES. NO OFFICER OR EMPLOYEE OF SELLER IS AUTHORIZED TO MAKE ANY ORAL REPRESENTATIONS OF WARRANTY OF MERCHANTABILITY OR FITNESS, OR TO VARY THE FOREGOING TERMS OF SALE AND NONE SHALL BE BINDING ON THE SELLER.



CRITERIUM[®] MOONEY ENGINEERS

January 30, 2003

Duc Ho and Yem Le
c/o Maplewood Development
249 St. John Street
Portland, ME 04101

22 MONUMENT SQ., SUITE 300
PORTLAND, ME 04101
TEL 207 775-1969
800 922-1969
FAX 207 775-4115

**Re: Structural Design - 249 St. John Street, Portland, Maine
CME Project No. 03-012**

Dear Duc Ho and Yem Le:


Thank you for giving us the opportunity to be of service to you. As we discussed with Gregg Paquette of Maplewood Development, I performed a comparison of two materials to demonstrate that the materials used to replace some existing structural members have a greater strength than the original materials.

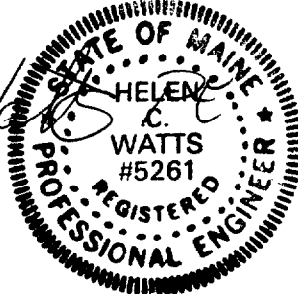
The original material is assumed to be a 6x8 #2 Douglas Fir timber. The new material is an A36 steel W5x19 beam. The materials were compared by evaluating the maximum load per linear feet for a 15-foot, 0-inches beam. The beams were evaluated using Strucalc 5.0, a structural analysis software. The codes used are the 1997 NDS for wood and the AISC 9th Edition, ASD for steel.

As shown in the attached printouts, the timber is adequate for a load of 82 pounds per linear foot (plf) of imposed load, and the steel beam is adequate for an imposed load of 481 plf, approximately six times greater.

Please call me if you have any questions concerning these observations. Thank you for allowing Criterium - Mooney Engineers to help you.

Yours truly,


Helen C. Watts, P.E.
Project Engineer

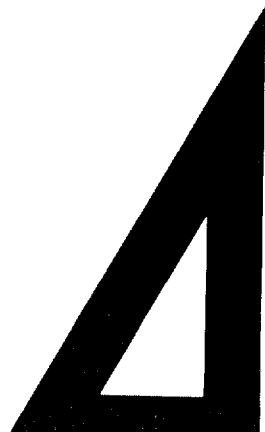


HCW/

Enclosures: Strucalc analysis printout
j:\data\projects\proj03\249 St John.ltr.doc

**LICENSED
PROFESSIONAL
ENGINEERS**

BUILDING DIAGNOSTICS
INSPECTIONS
ENVIRONMENTAL SERVICES
MAINTENANCE PLANNING
DESIGN



Uniformly Loaded Floor Beam[99 BOCA National Building Code (97 NDS) | Ver: 5.04
 By: Helen Watts , Helen Watts Engineering on: 01-29-2003 : 7:58:15 PM

Project: - Location:

Summary:

5.5 IN x 7.5 IN x 15.0 FT / #2 - Douglas Fir-South - Dry Use

Section Adequate By: 0.9% Controlling Factor: Section Modulus / Depth Required 7.47 In

Deflections:

Dead Load:	DLD=	0.54	IN
Live Load:	LLD=	0.00	IN = L/180000000
Total Load:	TLD=	0.54	IN = L/332

Reactions (Each End):

Live Load:	LL-Rxn=	0	LB
Dead Load:	DL-Rxn=	690	LB
Total Load:	TL-Rxn=	690	LB
Bearing Length Required (Beam only, Support capacity not checked):	BL=	0.24	IN

Beam Data:

Span:	L=	15.0	FT
Unbraced Length-Top of Beam:	Lu=	0.0	FT
Live Load Deflect. Criteria:	L/	360	
Total Load Deflect. Criteria:	L/	240	

Floor Loading:

Floor Live Load-Side One:	LL1=	0.0	PSF
Floor Dead Load-Side One:	DL1=	0.0	PSF
Tributary Width-Side One:	TW1=	0.0	FT
Floor Live Load-Side Two:	LL2=	0.0	PSF
Floor Dead Load-Side Two:	DL2=	0.0	PSF
Tributary Width-Side Two:	TW2=	0.0	FT
Live Load Duration Factor:	Cd=	1.00	
Wall Load:	WALL=	82	PLF

Beam Loading:

Beam Total Live Load:	wL=	0	PLF
Beam Self Weight:	BSW=	10	PLF
Beam Total Dead Load:	wD=	92	PLF
Total Maximum Load:	wT=	92	PLF

Properties For: #2- Douglas Fir-South

Bending Stress:	Fb=	675	PSI
Shear Stress:	Fv=	85	PSI
Modulus of Elasticity:	E=	1000000	PSI
Stress Perpendicular to Grain:	Fc_perp=	520	PSI

Adjusted Properties

Fb' (Tension):	Fb'=	608	PSI
Adjustment Factors: Cd=0.90 Cf=1.00			
Fv':	Fv'=	77	PSI
Adjustment Factors: Cd=0.90			

Design Requirements:

Controlling Moment:	M=	2588	FT-LB
7.5 ft from left support			
Critical moment created by dead loads only on all span(s).			
Controlling Shear:	V=	690	LB
At support.			
Critical shear created by dead loads only on all span(s).			

Comparisons With Required Sections:

Section Modulus (Moment):	Sreq=	51.13	IN3
	S=	51.56	IN3
Area (Shear):	Areq=	13.53	IN2
	A=	41.25	IN2
Moment of Inertia (Deflection):	Ireq=	139.74	IN4
	I=	193.36	IN4

Project - Location:

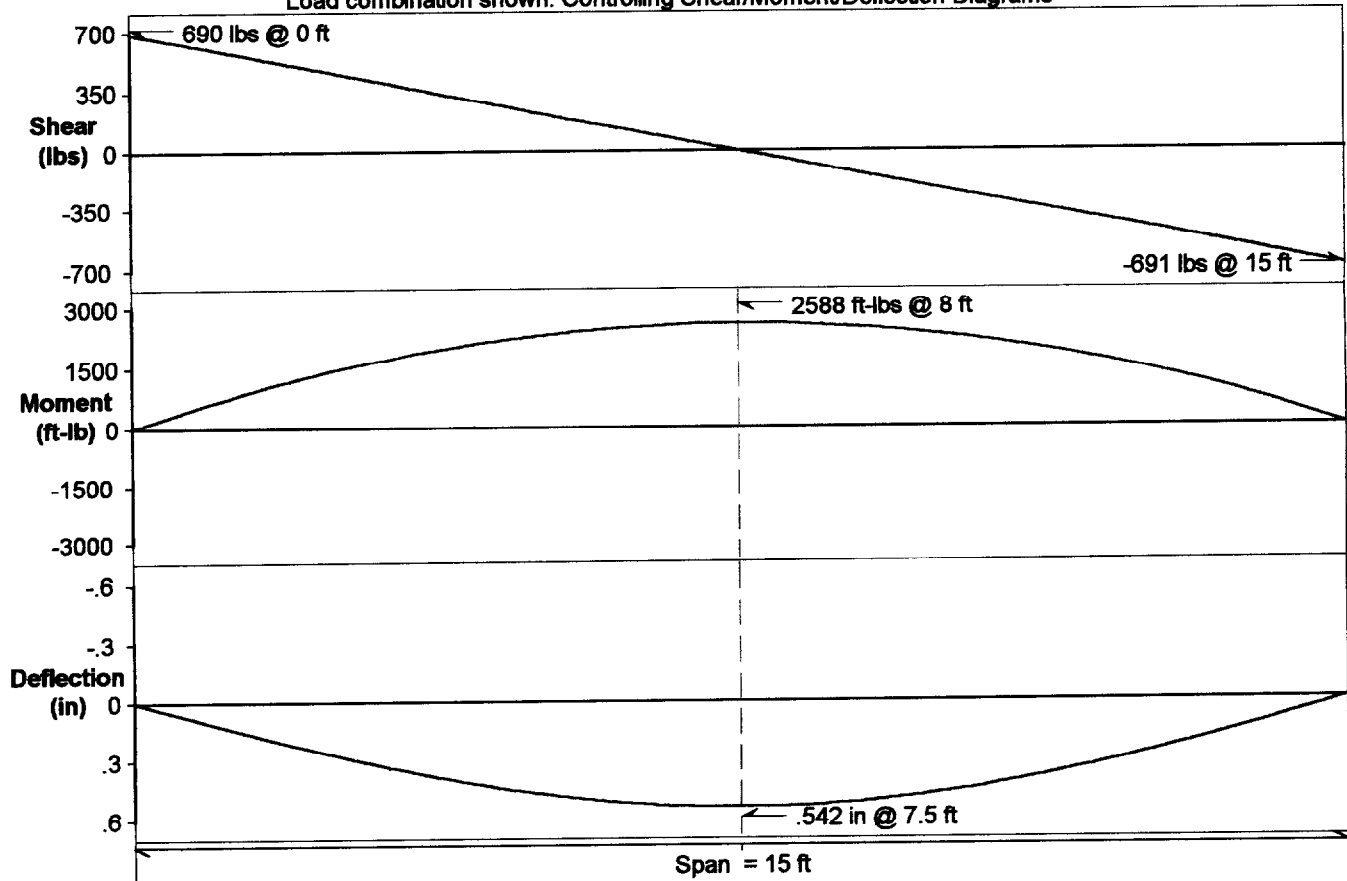
Summary:

5.5 IN x 7.5 IN x 15.0 FT / #2 - Douglas Fir-South - Dry Use

Section Adequate By: 0.9% Controlling Factor: Section Modulus / Depth Required 7.47 In

SHEAR, MOMENT, AND DEFLECTION DIAGRAMS

Load combination shown: Controlling Shear/Moment/Deflection Diagrams



Controlling Load Cases:

Shear: Critical shear created by dead loads only on all span(s).

Moment: Critical moment created by dead loads only on all span(s).

Deflection: Critical deflection created by combining all dead and live loads.

Project: - Location:

Summary:

~~W5x19~~ **W5x19 x 15.0 FT**

Section Adequate By: 0.1% Controlling Factor: Moment of Inertia

Deflections:

Dead Load:	DLD=	0.75	IN
Live Load:	LLD=	0.00	IN = L/180000000
Total Load:	TLD=	0.75	IN = L/240

Reactions (Each End):

Live Load:	LL-Rxn=	0	LB
Dead Load:	DL-Rxn=	3750	LB
Total Load:	TL-Rxn=	3750	LB
Bearing Length Required (Beam only, Support capacity not checked):	BL=	0.81	IN

Beam Data:

Span:	L=	15.0	FT
Unbraced Length-Top of Beam:	Lu=	0.0	FT
Live Load Deflect. Criteria:	L/	360	
Total Load Deflect. Criteria:	L/	240	

Floor Loading:

Floor Live Load-Side One:	LL1=	0.0	PSF
Floor Dead Load-Side One:	DL1=	0.0	PSF
Tributary Width-Side One:	TW1=	0.0	FT
Floor Live Load-Side Two:	LL2=	0.0	PSF
Floor Dead Load-Side Two:	DL2=	0.0	PSF
Tributary Width-Side Two:	TW2=	0.0	FT
Wall Load:	WALL=	451	PLF

Beam Loading:

Beam Total Live Load:	wL=	0	PLF
Beam Self Weight:	BSW=	19	PLF
Beam Total Dead Load:	wD=	500	PLF
Total Maximum Load:	wT=	500	PLF

Properties for: W5x19/A36

Yield Stress:	Fy=	36	KSI
Modulus of Elasticity:	E=	29000	KSI
Depth:	d=	5.15	IN
Web Thickness:	tw=	0.27	IN
Flange Width:	bf=	5.03	IN
Flange Thickness:	tf=	0.43	IN
Distance to Web Toe of Fillet:	k=	0.81	IN
Moment of Inertia About X-X Axis:	Ix=	26.20	IN4
Section Modulus About X-X Axis:	Sx=	10.20	IN3
Radius of Gyration of Compression Flange + 1/3 of Web:	rt=	1.38	IN

Design Properties per AISC Steel Construction Manual:

Flange Buckling Ratio:	FBR=	5.85	
Allowable Flange Buckling Ratio:	AFBR=	10.83	
Web Buckling Ratio:	WBR=	19.07	
Allowable Web Buckling Ratio:	AWBR=	106.67	
Controlling Unbraced Length:	Lb=	0.0	FT
Limiting Unbraced Length for Fb=.66*Fy:	Lc=	5.31	FT
Allowable Bending Stress:	Fb=	23.76	KSI
Web Height to Thickness Ratio:	h/tw=	15.89	
Limiting Web Height to Thickness Ratio for Fv=.4*Fy:	h/tw-Limit=	63.33	
Allowable Shear Stress:	Fv=	14.4	KSI

Design Requirements Comparison:

Controlling Moment:	M=	14063	FT-LB
Nominal Moment Strength:	Mr=	20196	FT-LB
Controlling Shear:	V=	3750	LB
Nominal Shear Strength:	Vr=	20023	LB
Moment of Inertia (Deflection):	Ireq=	26.18	IN4
	I=	26.20	IN4

Project - Location:

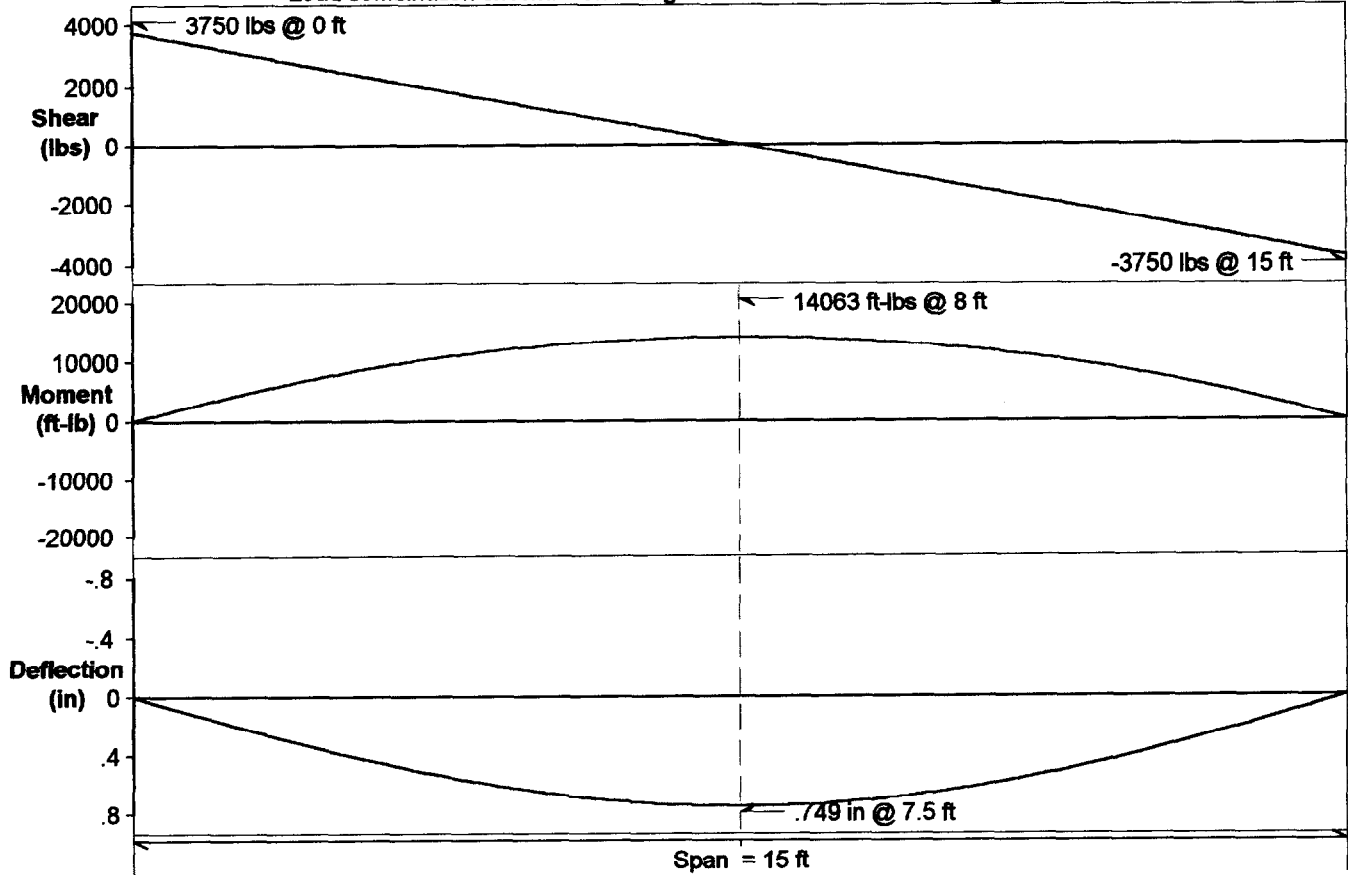
Summary:

A36 W5x19 x 15.0 FT

Section Adequate By: 0.1% Controlling Factor: Moment of Inertia

SHEAR, MOMENT, AND DEFLECTION DIAGRAMS

Load combination shown: Controlling Shear/Moment/Deflection Diagrams



Controlling Load Cases:

Shear: Critical shear created by combining all dead and live loads.

Moment: Critical moment created by combining all dead and live loads.

Deflection: Critical deflection created by combining all dead and live loads.