

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

Location of Construction: 173 Summit St. 04103		Owner: Charles & Jeanne Place		Phone: (207) 797-0347		Permit No: 990830	
Owner Address: 166 Summit St. 04103		Lessee/Buyer's Name:		Phone:		Business Name:	
Contractor Name:		Address:		Phone: 776-3776		PERMIT ISSUED Permit Issued: JUN 16 1999 CITY OF PORTLAND	
Past Use: Vacant		Proposed Use: Construct Single Family w/Attached 2 Car Garage		COST OF WORK: \$190,000.00		PERMIT FEE: \$970.00	
				FIRE DEPT. <input type="checkbox"/> Approved <input type="checkbox"/> Denied		INSPECTION: Use Group 3 Type 5A	
Proposed Project Description: Construct New Single Family w/ Attached 2 Car		Signature:		Signature: <i>[Signature]</i>		Zone: CBL: 396- P- 009	
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved with Conditions <input type="checkbox"/> Denied		Zoning Approval: <i>[Signature]</i> Special Zone or Reviews: <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input checked="" type="checkbox"/> Site Plan maj <input type="checkbox"/> minor <input checked="" type="checkbox"/> Imm	
Permit Taken By: S.P.		Date Applied For: May 17th, 1999		Signature:		Date:	

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..

PERMIT ISSUED WITH REQUIREMENTS

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 provisions of the code(s) applicable to such permit

May 17th, 1999

SIGNATURE OF APPLICANT ADDRESS: DATE: PHONE:

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE PHONE:

White-Permit Desk Green-Assessor's Canary-D.P.W. Pink-Public File Ivory Card-Inspector

CEO DISTRICT

2

[Handwritten mark]

381-A-14
155-D-22

MEMORANDUM

TO: Code Enforcement and Kandi Talbot
FROM: Steve Bushey, P.E., Acting Development Review Coordinator
DATE: December 27, 1999
RE: Request for Certificate of Occupancy
173 Summit Street-Charles Place

On December 27, 1999, the site was reviewed for compliance with the conditions of approval.

It is my opinion that all of the conditions of the approval have been met excepting the establishment of permanent grass. This will need to be addressed in the spring. Based on the site conditions observed it is my opinion that a temporary certificate of occupancy could be issued until June 30, 2000, assuming Code Enforcement has no outstanding issues.

7000TR

36" TOP/REAR VENTED DIRECT VENT GAS FIREPLACE

Model	Product	Suggested Retail
7000TR	Direct Vent Unit	\$1,349
7000TR-DSI	Direct Vent Unit with Direct Spark Ignition	\$1,449

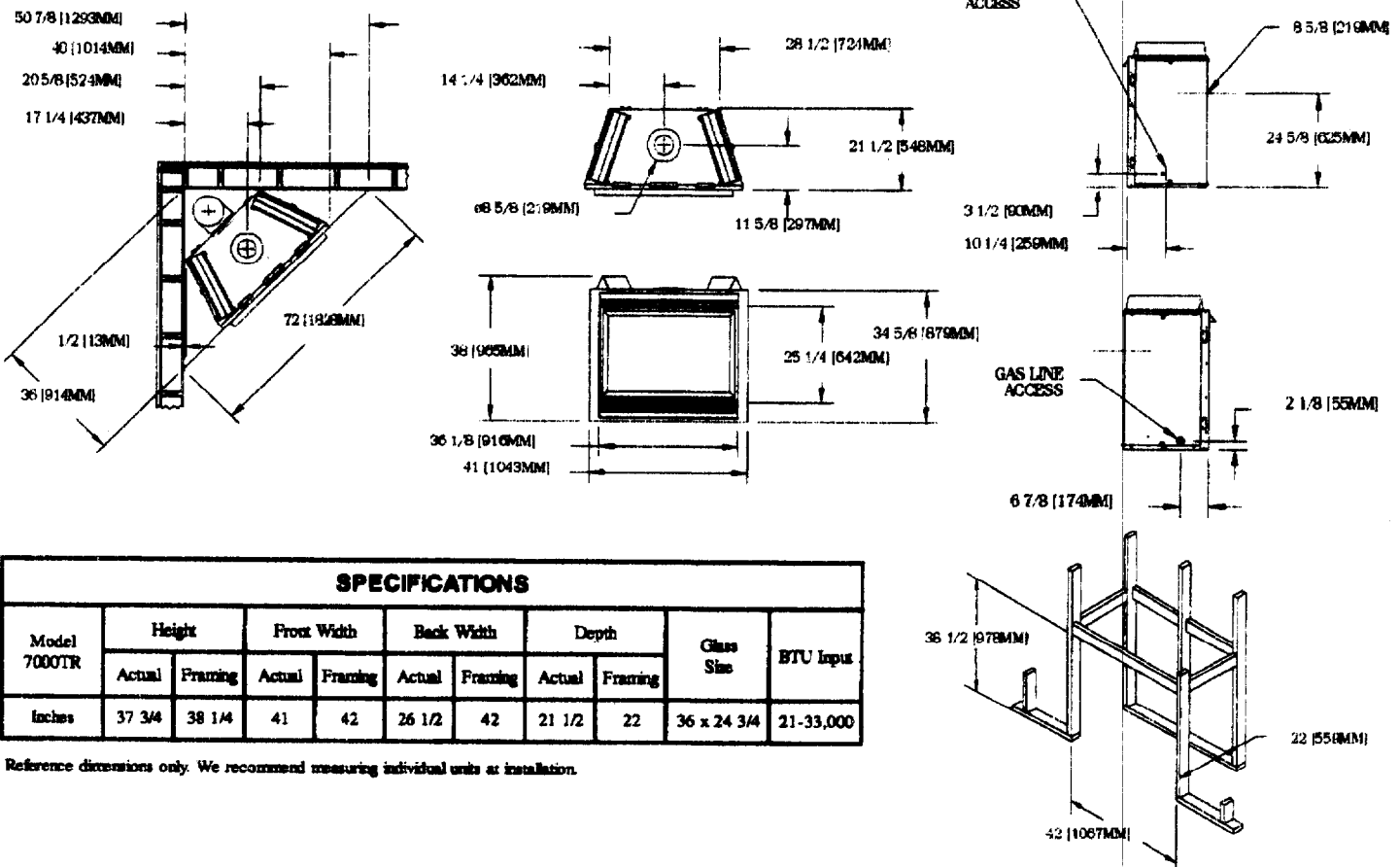
NOTE: Fronts Not Included - Order Separately

Features & Benefits

- Seven Glowing Ceramic Fiber Logs and New Patent Pending Ceramic Fiber Pan Burner
- 21,000 - 33,000 BTU Input/Hr. (Vertical venting)
19,000 - 30,000 BTU Input/Hr. (Horizontal venting)
- Variable Valve
- High Thermal Efficiency
- Sealed Combustion Chamber
- Standard Firebox Refractory
- The Most Realistic Burn Available
- Generous Flames & Heat Output
- Vary Flame Height & Heat Output
- Keeps You Warm & Cozy
- Works In Negative Pressure Situations & No Cold Drafts
- Recreate the Look & Feel of a Traditional Fireplace
- Safety Tested



Specifications



SPECIFICATIONS										
Model 7000TR	Height		Front Width		Back Width		Depth		Glass Size	BTU Input
	Actual	Framing	Actual	Framing	Actual	Framing	Actual	Framing		
Inches	37 3/4	38 1/4	41	42	26 1/2	42	21 1/2	22	36 x 24 3/4	21-33,000

Reference dimensions only. We recommend measuring individual units at installation.

BUILDING PERMIT REPORT

DATE: 21 MAY 99 ADDRESS: 173 Summit St. CBL: 396-F-009

REASON FOR PERMIT: To Construct a single family dwelling / attached garage

BUILDING OWNER: Charles & Jeanne Place

PERMIT APPLICANT: SAA Contractor SAA.

USE GROUP R-3 BOCA 1996 CONSTRUCTION TYPE 5B

CONDITION(S) OF APPROVAL

This permit is being issued with the understanding that the following conditions are met:

Approved with the following conditions: *1, *2, *3, *4, *5, *8, *9, *11, *12, *13, *14, *15, *19, *26, *27, *28, *29, *30, *32, *33, *34 **31 - see attached*

- *1. This permit does not excuse the applicant from meeting applicable State and Federal rules and laws.
- *2. Before concrete for foundation is placed, approvals from the Development Review Coordinator and Inspection Services must be obtained. (A 24 hour notice is required prior to inspection)
- *3. Foundation drain shall be placed around the perimeter of a foundation that consists of gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. The drain shall extend a minimum of 12 inches beyond the outside edge of the footing. The thickness shall be such that the bottom of the drain is not higher than the bottom of the base under the floor, and that the top of the drain is not less than 6 inches above the top of the footing. The top of the drain shall be covered with an approved filter membrane material. Where a drain tile or perforated pipe is used, the invert of the pipe or tile shall not be higher than the floor elevation. The top of joints or top of perforations shall be protected with an approved filter membrane material. The pipe or tile shall be placed on not less than 2" of gravel or crushed stone, and shall be covered with not less than 6" of the same material. Section 1813.5.2
- *4. Foundations anchors shall be a minimum of 1/2" in diameter, 7" into the foundation wall, minimum of 12" from corners of foundation and a maximum 6' o.c. between bolts. (Section 2305.17)
- *5. Waterproofing and damp proofing shall be done in accordance with Section 1813.0 of the building code.
- 6. Precaution must be taken to protect concrete from freezing. Section 1908.0
- 7. It is strongly recommended that a registered land surveyor check all foundation forms before concrete is placed. This is done to verify that the proper setbacks are maintained.
- *8. Private garages located beneath habitable rooms in occupancies in Use Group R-1, R-2, R-3 or I-1 shall be separated from adjacent interior spaces by fire partitions and floor/ceiling assembly which are constructed with not less than 1-hour fire resisting rating. Private garages attached side-by-side to rooms in the above occupancies shall be completely separated from the interior spaces and the attic area by means of 1/2 inch gypsum board or the equivalent applied to the garage means of 1/2 inch gypsum board or the equivalent applied to the garage side. (Chapter 4, Section 407.0 of the BOCA/1996)
- *9. All chimneys and vents shall be installed and maintained as per Chapter 12 of the City's Mechanical Code. (The BOCA National Mechanical Code/1993). Chapter 12 & NFPA 211
- 10. Sound transmission control in residential building shall be done in accordance with Chapter 12, Section 1214.0 of the City's Building Code.
- *11. Guardrails & Handrails: A guardrail system is a system of building components located near the open sides of elevated walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level. Minimum height all Use Groups 42", except Use Group R which is 36". In occupancies in Use Group A, B, H-4, I-1, I-2, M and R and public garages and open parking structures, open guards shall have balusters or be of solid material such that a sphere with a diameter of 4" cannot pass through any opening. Guards shall not have an ornamental pattern that would provide a ladder effect. (Handrails shall be a minimum of 3e4" but not more than 38". Use Group R-3 shall not be less than 30", but not more than 38".) Handrail grip size shall have a circular cross section with an outside diameter of at least 1 1/4" and not greater than 2". (Sections 1021 & 1022.0) - Handrails shall be on both sides of stairway. (Section 1014.7)
- *12. Headroom in habitable space is a minimum of 7'6". (Section 1204.0)
- *13. Stair construction in Use Group R-3 & R-4 is a minimum of 10" tread and 7 1/4" maximum rise. All other Use Group minimum 11" tread, 7" maximum rise. (Section 1014.0)
- *14. The minimum headroom in all parts of a stairway shall not be less than 80 inches. (6'8") 1014.4
- *15. Every sleeping room below the fourth story in buildings of Use Groups R and I-1 shall have at least one operable window or exterior door approved for emergency egress or rescue. The units must be operable from the inside without the use of special knowledge or separate tools. Where windows are provided as means of egress or rescue they shall have a sill height not more than 44 inches (1118mm) above the floor. All egress or rescue windows from sleeping rooms shall have a minimum net clear opening height dimension of 24 inches (610mm). The minimum net clear opening width dimension shall be 20 inches (508mm), and a minimum net clear opening of 5.7 sq. ft. (Section 1018.6) -
- 16. Each apartment shall have access to two (2) separate, remote and approved means of egress. A single exit is acceptable when it exits directly from the apartment to the building exterior with no communications to other apartment units. (Section 1010.1)
- 17. All vertical openings shall be enclosed with construction having a fire rating of at least one (1) hour, including fire doors with self-closing devices. (Over 3 stories in height requirements for fire rating is two (2) hours.) (Section 710.0)

**CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM
ADDENDUM**

19990058

I. D. Number

5/17/99

Application Date

Summit St

Project Name/Description

Charles Place

Applicant

173 Summit St, Portland, ME 04101

Applicant's Mailing Address

Self

173 Summit St

Consultant/Agent

Address of Proposed Site

797-0347

396-F-009

Applicant or Agent Daytime Telephone, Fax

Assessor's Reference: Chart-Block-Lot

DRC Conditions of Approval

All damage to sidewalk, curb, street, or public utilities shall be repaired to City of Portland standards prior to issuance of a Certificate of Occupancy.

Two (2) City of Portland approved species and size trees must be planted on your street frontage prior to issuance of a Certificate of Occupancy.

Your new street address is now 173 Summit St.

, the number must be displayed on the street frontage of your house prior to issuance of a Certificate of Occupancy.

The Development Review Coordinator (874-8300 ext.8722) must be notified five (5) working days

prior to date required for final site inspection. Please make allowances for completion of site plan requirements

determined to be incomplete or defective during the inspection. This is essential as all site plan requirements must

be completed and approved by the Development Review Coordinator prior to issuance of a Certificate of

Occupancy. Please schedule any property closing with these requirements in mind.

Show all utility connections: water, sanitary, sewer, storm drain, electric, telephone, cable.

A sewer permit is required for your project. Please contact Carol Merritt at 874-8300, ext . 8828. The Wastewater

and Drainage section of Public Works must be notified five (5) working days prior to sewer connection to

schedule an inspector for your site.

A street opening permit(s) is required for your site. Please contact Carol Merritt ay 874-8300, ext. 8828.

(Only excavators licensed by the City of Portland are eligible.)

As-built record information for sewer and stormwater service connections must be submitted to Public Works

Engineering Section (55 Portland Street) and approved prior to issuance of a Certificate of Occupancy.

The site contractor shall establish finish grades at the foundation, bulkhead and basement windows to be in

conformance with the first floor elevation (FFE) and sill elevation (SE) set by the building contractor to provide

for positive drainage away from entire footprint of building.

A drainage plan shall be submitted to and approved by Development Review Coordinator showing first floor

elevation (FFE), sill elevation (SE), finish street/curb elevation, lot grading, existing and proposed contours,

drainage patterns and paths, drainage swales, grades at or near abutting property lines, erosion control devices

and locations and outlets for drainage from the property.

The Development Review Coordinator reserves the right to require additional lot grading or other drainage

improvements as necessary due to field conditions.

Eroded soil shall be contained on site. Silt fence shall be placed down gradient of all disturber areas.

The proposed curb cut shall conform to the City's technical standards.

All construction within the right of way is required to be performed by a City of Portland licensed contractor.

Planning Conditions of Approval

Inspections Conditions of Approval

1. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

2. This is being approved as a single family dwelling only.

3. Separate permits shall be required for future decks, sheds, pools, and/or garage.

Applicant: Charles & Jeanne PLAC
Address: 173 Summit St.

Date: 5/24/99
C-B-L: 396-F-9

CHECK-LIST AGAINST ZONING ORDINANCE

Date - New

Zone Location - R-2

Interior or corner lot -

Proposed Use/Work - construct new single family dwelly with
Attached 2 car garage

Sevage Disposal - City

Lot Street Frontage - 50' req - 120' shown

Front Yard - 25' req - 27' to main structure shown

Rear Yard - 25' req - 92' + shown

Side Yard - 14' req - 15' & 25' shown

Projections - front steps - left side porch -

Width of Lot - 80' req - \approx 95' shown at least portion

Height - 2 story shown

Lot Area - 10,000 \pm req - 18,944 shown

Lot Coverage/ Impervious Surface - 20%

Area per Family - 10,000 \pm

Off-street Parking - 2 req - 2 shown

Loading Bays - N/A

Site Plan - minor/minor

Shoreland Zoning/ Stream Protection - N/A

Flood Plains - Zone C

3788.8 \pm MAX

16.66' x 26' = 433.16
17.33' x 30.5' = 528.57
18 x 42 = 756
28 x 28 = 784
8 x 42 = 336

2837.73 \pm

**CITY OF PORTLAND, ME
BOCA 1996 Plan Review Record
One and Two Family Dwelling**

Valuation: \$190,000.00 Plan Review # _____
 Fee: \$970.00 Date: 21 May 99

Building Location: 173 Summit St. CBL: 396-F-009

Building Description: Single family dwelling / attached garage

Reviewed by: S. Hoffses

Use or Occupancy: R-3 Type of Construction: 5-B

*NR: Not Required NA: Not Applicable SR: See Report X: OK per plan

Correction List		
NO:	Description	Code Section
1.	All site plan and building code requirements must be completed before a Certificate of occupancy can or will be issued.	111.0
2.	Foundation drainage	1813.5.2
3.	Foundation anchorage	2305.17
4.	Waterproofing & dampproofing	1813.0
5.	Private garages	407.0
6.	Chimneys & vents NFPA 211 and BOCA mech/93 Chapter 12	
7.	Guardrails and handrails (see details)	1021.1 1022.1
8.	STAIR CONSTRUCTION (see detail)	1014.0
9.	Sleeping room egress window (see req)	1018.5
10.	Smoke detectors	9203.2
11.	Fastening Schedule	Table 2305.2

REV: PSH 6-28-98

Foundations (Chapter 18)

Wood Foundation (1808)

- NA Design
- NA Installation

Footings (1807.0)

- X Depth below (outside) grade 4' minimum; but below frost line except for insulated footings.
- NA Insulated footing provided
- X Soil bearing value (table 1804.3)
- X Footing width
- X Concrete footing (1810.0) .3.1, 3.2
- _____
- _____
- _____
- _____
- _____

Foundation Walls

- X Design (1812.1)
- X Minimum thickness Tables 1812.3.2.(1) & 1812.3.2 (2)
- SA Water proofing and damp proofing Section 1813
- X Sill plate (2305.17)
- SA Anchorage bolting in concrete (2305.17)
- X Columns (1912)
- NA Crawl space (1210.2) Ventilation
- NA Crawl opening size (1210.2.1)
- NA Access to crawl and attic space (1211.0)
- _____

Floors (Chapter 16-23)

- X Joists - Non sleeping area LL40PSF (Table - 1606)
- X Joists - Sleeping area LL30PSF (Table - 1606)
- X Grade
- X Spacing
- X Span
- X Girder 4" bearing 2305.6.1

- X Roof rafters - Design (2305.15) spans
- X Roof decking and sheathing (2305.15.1) 5/8" boards and (2307.3) (Table 2307.3.1(2))
- NA Roof trusses (2313.3.1)
- _____
- _____
- _____
- _____
- _____

Roof Coverings (Chapter 15)

- X Approved materials (1404.1)
- A Performance requirement (1505)
- X Fire classification (1506)
- A Material and installation requirements (1507)
- X Roof structures (1510.0)
- X Type of covering (1507)

**Chimneys and Fireplaces
BOCA Mechanical/1993**

- SA Masonry (1206.0)
- NA Factory - built (1205.0)
- SA Masonry fireplaces (1404)
- NA Factory - built fireplace (1403)
- SA NFPA 211

**Mechanical
1993 BOCA Mechanical Code**

- X _____
- _____
- _____
- _____
- _____
- _____
- _____

State Plumbing Code

Egress (Chapter 10)

- ~~X~~ One exit from dwelling unit (1010.2)
 - ~~SA~~ Sleeping room window (1010.4)
 - ~~X~~ EXIT DOOR (1017.3) 32" W 80" H
 - ~~X~~ Landings (1014.3.2) stairway
 - ~~NA~~ Ramp slope (1016.0)
 - ~~SA~~ Stairways (1014.3) 36" W
 - ~~SA~~ Treads (1014.6) 10" min.
 - ~~SA~~ Riser (1014.6) 7 3/4" max.
 - ~~SA~~ Solid riser (1014.6.1)
 - ~~NA~~ Winders (1014.6.3)
 - ~~NA~~ Spiral and Circular (1014.6.4)
 - ~~X~~ Handrails (1022.2.2.) Ht.
 - ~~X~~ Handrail grip size (1022.2.4) 1 1/4" to 2"
 - ~~X~~ Guards (1012.0) 36" min.
- _____

Smoke Detectors (920.3.2)

- ~~SA~~ Location and interconnection
- ~~SA~~ Power source

**Dwelling Unit Separation
Table 602**

~~NA~~

Electrical

NFPA # 

**CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM**

19990058
I. D. Number

Charles Place
Applicant
173 Summit St, Portland, ME 04101
Applicant's Mailing Address
Self
Consultant/Agent
797-0347
Applicant or Agent Daytime Telephone, Fax

5/17/99
Application Date
Summit St
Project Name/Description

173 Summit St
Address of Proposed Site
396-F-009
Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply): New Building Building Addition Change Of Use Residential
 Office Retail Manufacturing Warehouse/Distribution Parking Lot Other (specify) attached garage & porch no de
 3619 18944 R-2
 Proposed Building square Feet or # of Units 18944 Acreage of Site R-2 Zoning

Check Review Required:

Site Plan (major/minor) Subdivision # of lots PAD Review 14-403 Streets Review
 Flood Hazard Shoreland Historic Preservation DEP Local Certification
 Zoning Conditional Use (ZBA/PB) Zoning Variance Other

Fees Paid: Site Plan _____ Subdivision _____ Engineer Review \$300.00 Date: 5/17/99

Inspections Approval Status:

Reviewer Marge Schmuckal

Approved Approved w/Conditions Denied
see attached

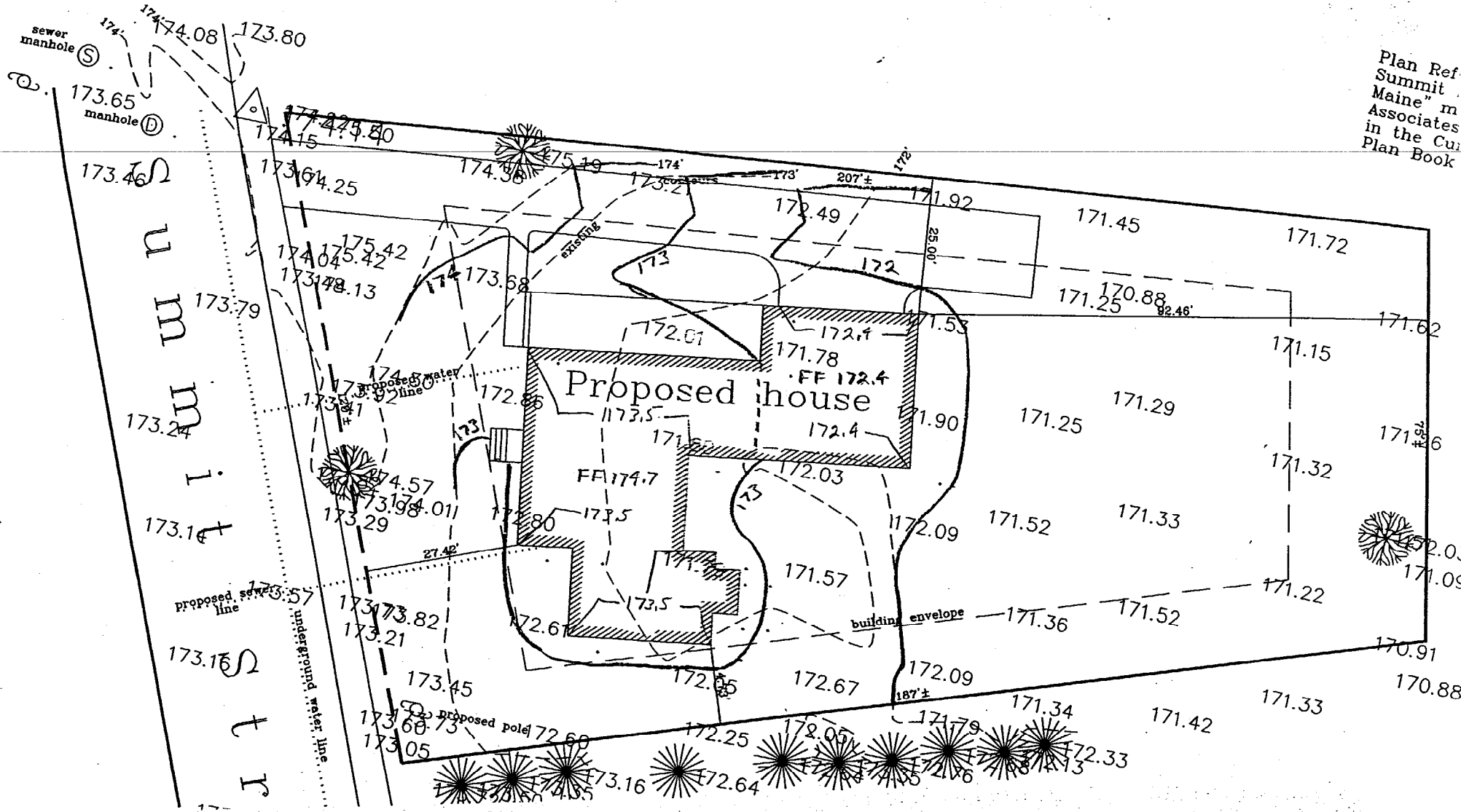
Approval Date 5/24/99 Approval Expiration _____ Extension to _____ Additional Sheets Attached

Condition Compliance _____
 signature _____ date _____

Performance Guarantee Required* Not Required

* No building permit may be issued until a performance guarantee has been submitted as indicated below

<input type="checkbox"/> Performance Guarantee Accepted	_____	_____	_____
	date	amount	expiration date
<input type="checkbox"/> Inspection Fee Paid	_____	_____	
	date	amount	
<input type="checkbox"/> Building Permit Issued	_____		
	date		
<input type="checkbox"/> Performance Guarantee Reduced	_____	_____	_____
	date	remaining balance	signature
<input type="checkbox"/> Temporary Certificate of Occupancy	_____	<input type="checkbox"/> Conditions (See Attached)	
	date		
<input type="checkbox"/> Final Inspection	_____	_____	
	date	signature	
<input type="checkbox"/> Certificate Of Occupancy	_____		
	date		
<input type="checkbox"/> Performance Guarantee Released	_____	_____	
	date	signature	
<input type="checkbox"/> Defect Guarantee Submitted	_____	_____	_____
	submitted date	amount	expiration date
<input type="checkbox"/> Defect Guarantee Released			



summit
proposed sewer line
proposed water line
underground water line

Proposed house

building envelope

FF 174.7

FF 172.4

proposed pole 72.60

sewer manhole S

manhole D

**CITY OF PORTLAND, MAINE
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ADDENDUM**

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Planning Conditions of Approval

Inspections Conditions of Approval

1. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
2. This is being approved as a single family dwelling only.
3. Separate permits shall be required for future decks, sheds, pools, and/or garage.

Fire Conditions of Approval

THIS IS NOT A PERMIT/CONSTRUCTION CANNOT COMMENCE UNTIL THE PERMIT IS ISSUED

**Minor/Minor Site Review, Building or Use Permit Pre-Application
Detached Single Family Dwelling**

In the interest of processing your application in the quickest possible manner, please complete the Information below for a Building or Use Permit.

NOTEIf 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: 173 Summit ST			
Total Square Footage of Proposed Structure 3619		Square Footage of Lot 19,000 +	
Tax Assessor's Chart, Block & Lot Number Chart# 396 Block# F Lot# 9		Owner: Charles + Jeanne PLACE	Telephone#: 2797-0347
Lessee/Buyer's Name (If Applicable)		Owner's/Purchaser/Lessee Address: 166 Summit ST Portland	Cost Of Work: \$190,000 Fee: \$970
Proposed Project Description:(Please be as specific as possible) New house w/ Attached 2-Car			
Contractor's Name, Address & Telephone OWNER			Rec'd By: SP

Separate permits are required for Internal & External Plumbing, HVAC and Electrical installation.

- All construction must be conducted in compliance with the 1996 B.O.C.A. Building Code as amended by Section 6-Art II.
- All plumbing must be conducted in compliance with the State of Maine Plumbing Code.
- All Electrical Installation must comply with the 1996 National Electrical Code as amended by Section 6-Art III.
- HVAC(Heating, Ventilation and Air Conditioning) installation must comply with the 1993 BOCA Mechanical Code.

You must include the following with you application:

- 1) A Copy of Your Deed or Purchase and Sale Agreement
- 2) A Copy of your Construction Contract, if available
- 3) A Plot Plan (Sample Attached)

SP 300
Bld 970
1270

A "minor/minor" site plan review is required prior to permit issuance. The Site plan must be prepared and sealed by a registered land surveyor (2 copies are required). A complete plot plan (Site Plan) includes:

- The shape and dimension of the lot, all existing buildings (if any), the proposed structure and the distance to the actual property lines. Structures include decks porches, a bow windows cantilever sections and roof overhangs, as well as pools, garages and any other accessory structures.
- Scale and North arrow; Zoning District & Setbacks
- First Floor sill elevation (based on mean sea level datum);
- Location and dimensions of parking areas and driveways;
- Location and size of both existing utilities in the street and the proposed utilities serving the building;
- Location of areas on the site that will be used to dispose of surface water.
- Existing and proposed grade contours

4) Building Plans (Sample Attached)

A complete set of construction drawings showing all of the following elements of construction:

- Cross Sections w/Framing details (including porches, decks w/ railings, and accessory structures)
- Floor Plans & Elevations
- Window and door schedules
- Foundation plans with required drainage and dampproofing
- Electrical and plumbing layout. Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment (air handling) or other types of work that may require special review must be included.

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/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. 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.

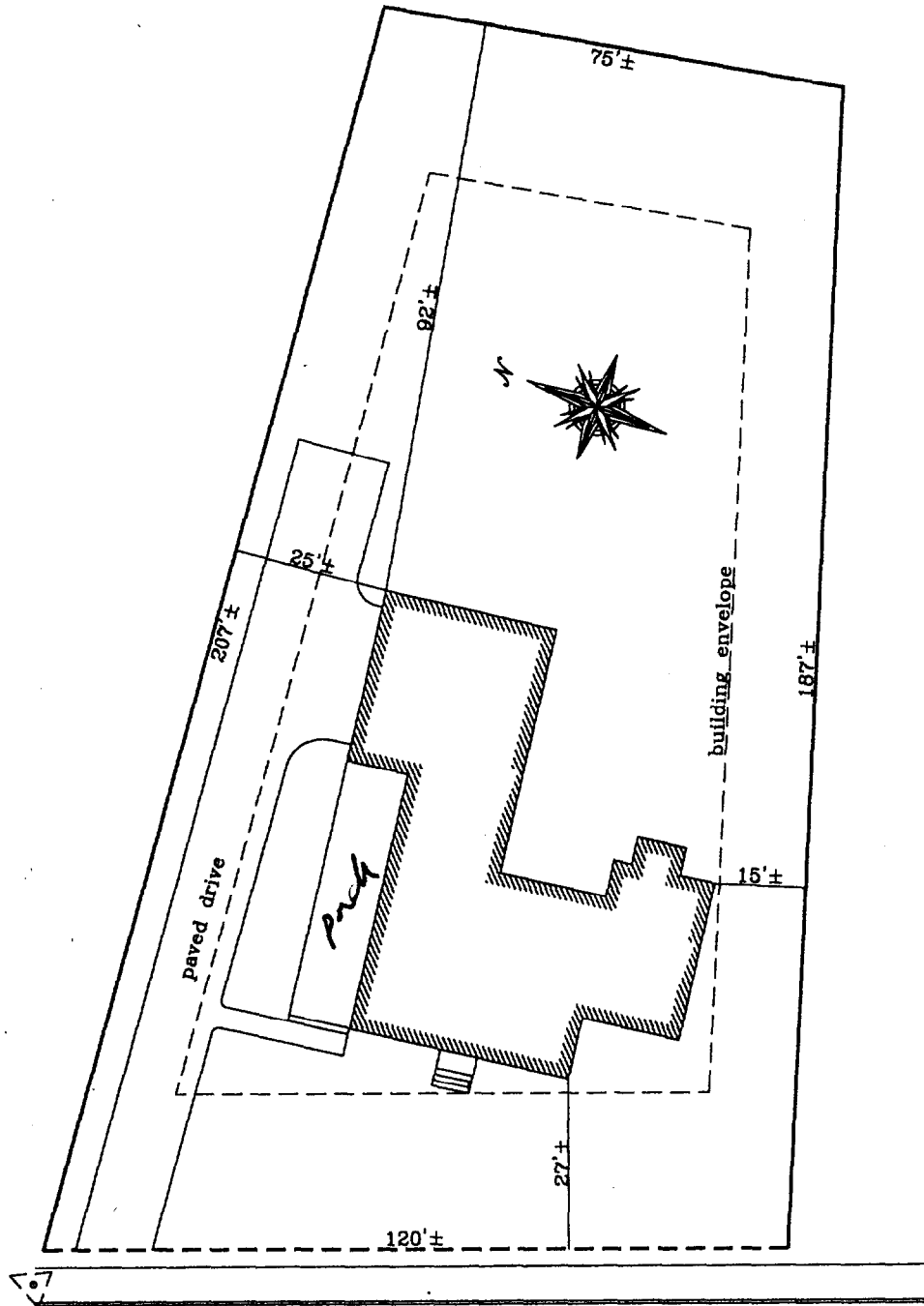
Signature of applicant: Charles Place	Date: 5/17/99
--	----------------------

Site Review Fee: \$300.00/Building Permit Fee: \$25.00 for the 1st \$1000.cost plus \$5.00 per \$1,000.00 construction cost thereafter.



THIS IS NOT A BOUNDARY SURVEY

No. 786-38



water line

manhole ☉ Summit Street sewer manhole ☉

sewer manhole ☉

Date 5-13-99 Scale 1"=30' Drawn by AC

T Titcomb Associates Falmouth, Maine

**CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM**

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Application Date

Summit St

Project Name/Description

173 Summit St

Address of Proposed Site

396-F-009

Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply): New Building Building Addition Change Of Use Residential
 Office Retail Manufacturing Warehouse/Distribution Parking Lot Other (specify) _____

3619

19000

Proposed Building square Feet or # of Units

Acreage of Site

Zoning

Check Review Required:

- | | | | |
|--|---|--|--|
| <input checked="" type="checkbox"/> Site Plan
(major/minor) | <input type="checkbox"/> Subdivision
of lots _____ | <input type="checkbox"/> PAD Review | <input type="checkbox"/> 14-403 Streets Review |
| <input type="checkbox"/> Flood Hazard | <input type="checkbox"/> Shoreland | <input type="checkbox"/> Historic Preservation | <input type="checkbox"/> DEP Local Certification |
| <input type="checkbox"/> Zoning Conditional
Use (ZBA/PB) | <input type="checkbox"/> Zoning Variance | | <input type="checkbox"/> Other _____ |

Fees Paid: Site Plan _____ Subdivision _____ Engineer Review **\$300.00** Date: **5/17/99**

Inspections Approval Status:

Reviewer _____

- Approved Approved w/Conditions
see attached Denied
- Approval Date _____ Approval Expiration _____ Extension to _____ Additional Sheets
Attached
- Condition Compliance _____
signature _____ date _____

Performance Guarantee Required* Not Required

* No building permit may be issued until a performance guarantee has been submitted as indicated below

- | | | | |
|---|----------------|--|-----------------|
| <input type="checkbox"/> Performance Guarantee Accepted | _____ | _____ | _____ |
| | date | amount | expiration date |
| <input type="checkbox"/> Inspection Fee Paid | _____ | _____ | |
| | date | amount | |
| <input type="checkbox"/> Building Permit Issued | _____ | | |
| | date | | |
| <input type="checkbox"/> Performance Guarantee Reduced | _____ | _____ | _____ |
| | date | remaining balance | signature |
| <input type="checkbox"/> Temporary Certificate of Occupancy | _____ | <input type="checkbox"/> Conditions (See Attached) | |
| | date | | |
| <input type="checkbox"/> Final Inspection | _____ | _____ | |
| | date | signature | |
| <input type="checkbox"/> Certificate Of Occupancy | _____ | | |
| | date | | |
| <input type="checkbox"/> Performance Guarantee Released | _____ | _____ | |
| | date | signature | |
| <input type="checkbox"/> Defect Guarantee Submitted | _____ | _____ | _____ |
| | submitted date | amount | expiration date |

PLUMBING APPLICATION

396-F-009

Department of Human Services
Division of Health Engineering
(207) 289-3826

PROPERTY ADDRESS

Town Or
Plantation

PORTLAND

Street
Subdivision Lot #

173 Summit St

PROPERTY OWNERS NAME

Last: Place

First: Chuck

Applicant
Name:

MARK O'BRIEN P+H Inc

Mailing Address of
Owner/Applicant
(if Different)

9 Broadmoor Dr
Cumberland Ctr. 04021

Owner/Applicant Statement

I certify that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Local Plumbing Inspector to deny a Permit.

Mark O'Brien

8/30/99

Signature of Owner/Applicant

Date

Caution: Inspection Required

I have inspected the installation authorized above and found it to be in compliance with the Maine Plumbing Rules.

Local Plumbing Inspector Signature

Date Approved

PORTLAND
Permit
Issued:

9, 7, 99

PERMIT # 7010

STATE COPY

\$ 72

Double Fee
Charged

630 Local Plumbing Inspector Signature

L.P.I. # 02324

PERMIT INFORMATION

This Application is for

- NEW PLUMBING
- RELOCATED PLUMBING

Type Of Structure To Be Served:

- SINGLE FAMILY DWELLING
- MODULAR OR MOBILE HOME
- MULTIPLE FAMILY DWELLING
- OTHER — SPECIFY _____

Plumbing To Be Installed By:

- MASTER PLUMBER
- OIL BURNERMAN
- MFG'D. HOUSING DEALER / MECHANIC
- PUBLIC UTILITY EMPLOYEE
- PROPERTY OWNER

LICENSE # 02321

Hook-Up & Piping Relocation Maximum of 1 Hook-Up		Column 2		Column 1	
		Number	Type of Fixture	Number	Type of Fixture
HOOK-UP: to public sewer in those cases where the connection is not regulated and inspected by the local Sanitary District.	OR	2	Hosebibb / Sillcock	2	Bathtub (and Shower)
			Floor Drain	1	Shower (Separate)
HOOK-UP: to an existing subsurface wastewater disposal system.	OR		Urinal	1	Sink
			Drinking Fountain	4	Wash Basin
PIPING RELOCATION: of sanitary lines, drains, and piping without new fixtures.	OR		Indirect Waste	3	Water Closet (Toilet)
			Water Treatment Softener, Filter, etc.	1	Clothes Washer
Number of Hook-Ups & Relocations			Grease / Oil Separator	1	Dish Washer
Hook-Up & Relocation Fee			Dental Cuspidor	1	Garbage Disposal
\$	OR		Bidet	1	Laundry Tub
			Other: _____	1	Water Heater
	TRANSFER FEE [\$6.00]		Fixtures (Subtotal) Column 2	16	Fixtures (Subtotal) Column 1
				2	Fixtures (Subtotal) Column 2
				18	Total Fixtures
				\$	Fixture Fee
				\$	Transfer Fee
				\$	Hook-Up & Relocation Fee
				\$	Permit Fee (Total)

SEE PERMIT FEE SCHEDULE
FOR CALCULATING FEE

Revelwood Designs

61 Sebago Road
Hiram, Maine 04041
Phone & Fax (207) 625-4387
revelwood@cybertours.com

396-F-9

To: Tammy Munson
City of Portland

From: Kathryn M. Joiner, A.I.B.D.
Certified Professional Building Designer

Date: July 22, 1999

Re: Residence for Chuck Place
173 Summit Street, Portland

Tammy;

This letter is in response to your request for information regarding the structural beams in the design for the Place residence. I am a Certified Professional Building Designer with 14 years of experience and am professionally insured. I have included a copy of my NCBDC certification (National Council of Building Designer Certification); if you need to verify my professional status please call AIBD (American Institute of Building Design) at 1-800-366-AIBD.

I have included the manufacturer's specifications for the beams indicated on the plans, including Parallam beams and the steel beam. Please call me if you have any questions or need additional information. I appreciate your concern for the structural integrity of new residences.

Sincerely,

Kathryn Joiner

**2.0E PARALLAM® PSL ALLOWABLE DESIGN STRESSES
(100% LOAD DURATION)**

Shear modulus of elasticity	$G = 125,000$ psi
Modulus of elasticity	$E = 2.0 \times 10^6$ psi
Flexural stress	$F_b = 2900$ psi ⁽¹⁾
Compression perpendicular to grain parallel to wide face of strands	$F_{c\perp} = 650$ psi ⁽²⁾⁽³⁾
Compression parallel to grain	$F_{c\parallel} = 2900$ psi
Horizontal shear perpendicular to wide face of strands	$F_v = 290$ psi

- (1) For 12-inch depth. For others, multiply by $[\frac{12}{d}]^{0.111}$
- (2) $F_{c\perp}$ shall not be increased for duration of load.
- (3) 750 psi for all Eastern Species Parallam® PSL and 1¾" thick Western Species Parallam® PSL.

**ALLOWABLE DESIGN PROPERTIES (100% LOAD DURATION)
1¾" 2.0E Parallam® PSL**

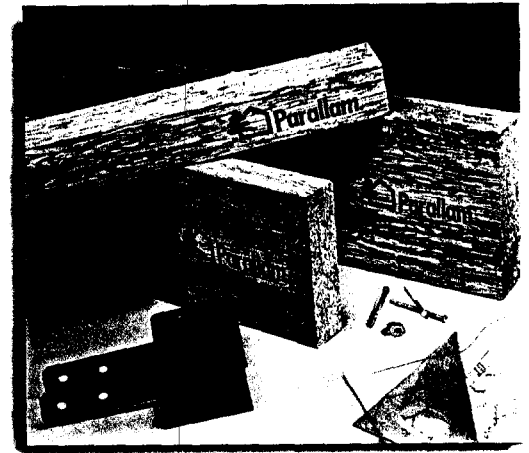
DESIGN PROPERTY	DEPTH				
	9 1/4"	9 1/2"	10 1/2"	11 1/2"	12"
MOMENT (ft-lb)	6,210	6,530	8,985	9,950	13,58
SHEAR (lb)	3,130	3,215	3,805	4,020	4,735
MOMENT OF INERTIA (in ⁴)	115	125	210	245	400
WEIGHT (lb/lin. ft)	5.1	5.2	6.2	6.5	7.7

3½" 2.0E PARALLAM® PSL

DESIGN PROPERTY	DEPTH						
	9 1/4"	9 1/2"	10 1/2"	11 1/2"	12"	14"	16"
MOMENT (ft-lb)	12,415	13,055	17,970	19,900	27,160	34,955	43,665
SHEAR (lb)	6,260	6,430	7,615	8,035	9,475	10,825	12,180
MOMENT OF INERTIA (in ⁴)	230	250	415	490	800	1,195	1,700
WEIGHT (lb/lin. ft)	10.1	10.4	12.3	13.0	15.3	17.5	19.7

7" 2.0E PARALLAM® PSL

DESIGN PROPERTY	DEPTH						
	9 1/4"	9 1/2"	10 1/2"	11 1/2"	12"	14"	16"
MOMENT (ft-lb)	24,830	26,115	35,940	39,805	54,325	69,905	87,325
SHEAR (lb)	12,520	12,855	15,225	16,070	18,945	21,655	24,360
MOMENT OF INERTIA (in ⁴)	460	500	830	975	1,600	2,390	3,400
WEIGHT (lb/lin. ft)	20.2	20.8	24.6	26.0	30.6	35.0	39.4



2 11/16" 2.0E PARALLAM® PSL

DESIGN PROPERTY	DEPTH						
	9 1/4"	9 1/2"	10 1/2"	11 1/2"	12"	16"	18"
MOMENT (ft-lb)	9,535	10,025	13,800	15,280	20,855	26,840	33,530
SHEAR (lb)	4,805	4,935	5,845	6,170	7,275	8,315	9,350
MOMENT OF INERTIA (in ⁴)	175	190	320	375	615	915	1,305
WEIGHT (lb/lin. ft)	7.8	8.0	9.5	10.0	11.8	13.4	15.1

5¼" 2.0E PARALLAM® PSL

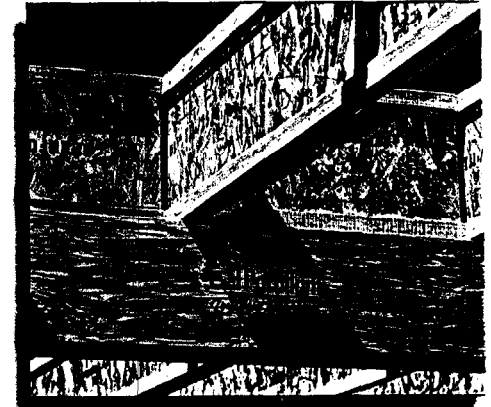
DESIGN PROPERTY	DEPTH						
	9 1/4"	9 1/2"	10 1/2"	11 1/2"	12"	16"	18"
MOMENT (ft-lb)	18,625	19,585	26,955	29,855	40,740	52,430	65,495
SHEAR (lb)	9,390	9,645	11,420	12,055	14,210	16,240	18,270
MOMENT OF INERTIA (in ⁴)	345	375	625	735	1,200	1,790	2,550
WEIGHT (lb/lin. ft)	15.2	15.6	18.5	19.5	23.0	26.3	29.5

**GENERAL ASSUMPTIONS FOR
NON-TREATED PARALLAM® PSL**

- Lateral support is required at all bearing points and along compression edge at intervals of 24" on-center or closer.
- Parallam® PSL beams are made without camber; therefore, in addition to complying with the deflection limits of the applicable building code, other considerations, such as long term deflection under sustained loads (including creep), ponding (positive drainage is essential) and aesthetics, must be evaluated.
- Roof members shall either be sloped for drainage or designed to account for load and deflection as specified in the applicable building code.
- Reductions applied in accordance with: 1994 UBC 1606, 1996 NBC 1606 and 1994 SBC 1604 for floor live load; 1994 UBC 1606, 1996 NBC 1607 and 1994 SBC 1604 for roof live load in non-snow (125%) conditions.
- 3½" members may be two pieces of 1¾" or a single 3½" width beam.
5¼" members may be three pieces 1¾", one piece 1¾" with one piece 3½", or a single 5¼" width beam.
7" members may be two pieces 1¾" around one piece 3½", two pieces 3½", or a single 7" width beam.

See pages 16 and 17 for multiple member beam connections.

X 2001



GENERAL NOTES

- Values shown are the maximum uniform loads in pounds per lineal foot (plf) that can be applied to the beam in addition to its own weight.
- Tables are based on uniform loads and the most restrictive of simple or continuous spans.
- Total load values are limited to deflection of L/240. Live load values are based on deflection of L/360. Check local code for other deflection criteria.
- For deflection limits of L/240 and L/480, multiply live load values by 1.5 and 0.75 respectively. The resulting live load shall not exceed the total load shown.

Also see General Assumptions on Page 3.

														SPAN
2205	2276	2792	2986	3684	4403	5190	2940	3034	3723	3981	4912	5870	6921	8
1754	1887						2338	2516						
2.6 / 6.5	2.7 / 6.7	3.3 / 8.2	3.5 / 8.8	4.3 / 10.9	5.2 / 13.0	6.1 / 15.3	2.6 / 6.5	2.7 / 6.7	3.3 / 8.2	3.5 / 8.8	4.3 / 10.9	5.2 / 13.0	6.1 / 15.3	
1395	1505	2131	2272	2772	3277	3817	1860	2007	2841	3029	3697	4369	5089	10
940	1014	1626	1887				1254	1352	2168	2516				
2.1 / 5.2	2.2 / 5.6	3.1 / 7.9	3.4 / 8.4	4.1 / 10.2	4.8 / 12.1	5.6 / 14.1	2.1 / 5.2	2.2 / 5.6	3.1 / 7.9	3.4 / 8.4	4.1 / 10.2	4.8 / 12.1	5.6 / 14.1	
822	889	1446	1639	2221	2607	3015	1096	1185	1929	2185	2961	3476	4021	12
558	603	977	1137	1798	2583		744	804	1302	1517	2397	3444		
1.5 / 3.7	1.6 / 4.0	2.6 / 6.4	2.9 / 7.3	3.9 / 9.9	4.6 / 11.6	5.4 / 13.4	1.5 / 3.7	1.6 / 4.0	2.6 / 6.4	2.9 / 7.3	3.9 / 9.9	4.6 / 11.6	5.4 / 13.4	
521	564	925	1083	1640	2114	2490	694	751	1234	1443	2187	2818	3321	14
357	386	629	735	1171	1698	2342	476	515	839	980	1562	2265	3123	
1.5 / 3.5	1.5 / 3.5	1.9 / 4.8	2.3 / 5.7	3.4 / 8.5	4.4 / 11.0	5.2 / 12.9	1.5 / 3.5	1.5 / 3.5	1.9 / 4.8	2.3 / 5.6	3.4 / 8.5	4.4 / 11.0	5.2 / 12.9	
348	377	624	731	1181	1612	2017	463	502	831	975	1575	2150	2690	16
242	262	428	501	803	1171	1626	322	349	571	667	1070	1562	2168	
1.5 / 3.5	1.5 / 3.5	1.5 / 3.8	1.8 / 4.4	2.8 / 7.1	3.8 / 9.6	4.8 / 12.0	1.5 / 3.5	1.5 / 3.5	1.5 / 3.8	1.8 / 4.4	2.8 / 7.1	3.8 / 9.6	4.8 / 12.0	
241	262	437	514	836	1233	1588	322	349	583	685	1115	1644	2117	18
171	185	304	356	573	840	1171	228	247	405	474	764	1120	1562	
1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.3 / 5.7	3.3 / 8.3	4.3 / 10.7	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.3 / 5.7	3.3 / 8.3	4.3 / 10.7	
173	188	316	373	611	906	1275	231	251	422	497	814	1208	1700	20
125	136	223	262	423	621	870	167	181	298	349	563	828	1160	
1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.9 / 4.6	2.7 / 6.8	3.8 / 9.6	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.9 / 4.6	2.7 / 6.8	3.8 / 9.6	
94	103	177	210	349	524	744	126	137	236	280	466	698	992	24
73	79	130	153	248	367	516	97	105	174	204	331	489	688	
1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.9 / 4.8	2.7 / 6.8	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.9 / 4.8	2.7 / 6.8	
54	59	106	126	214	324	465	72	79	141	168	285	432	620	28
46	50	83	97	158	234	330	62	67	110	129	210	312	440	
1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.6	2.0 / 5.1	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.6	2.0 / 5.1	
		65	78	137	210	305		46	87	105	182	281	407	32
		56	65	106	158	223		45	74	87	142	210	298	
		1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.6 / 3.9		1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.6 / 3.9	

10.2

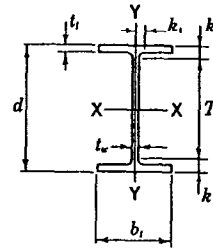


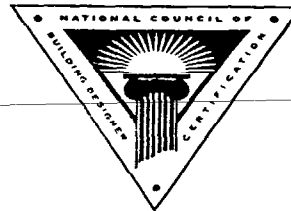
TABLE A-1. Properties of Wide Flange (W) Shapes

Designation	Area A	Depth d		Web		Flange				Distance			
				Thickness t _w	t _w /2	Width b _f	Thickness t _f	T	k	k ₁			
											in.	in.	in.
W 18x 46	13.5	18.06	18	0.360	3/16	3/16	6.060	6	0.605	5/8	15 1/2	1 1/4	13 1/16
x 40	11.8	17.90	17 3/8	0.315	3/16	3/16	6.015	6	0.525	1/2	15 1/2	1 3/16	13 1/16
x 35	10.3	17.70	17 1/4	0.300	3/16	3/16	6.000	6	0.425	7/16	15 1/2	1 1/8	3/4
W 16x100	29.4	16.97	17	0.585	3/16	5/16	10.425	10 3/8	0.985	1	13 3/8	1 11/16	15 1/16
x 89	26.2	16.75	16 3/4	0.525	1/2	1/4	10.365	10 3/8	0.875	7/8	13 3/8	1 3/16	7/8
x 77	22.6	16.52	16 1/2	0.455	7/16	1/4	10.295	10 3/4	0.760	3/4	13 3/8	1 1/16	7/8
x 67	19.7	16.33	16 3/8	0.395	3/8	3/16	10.235	10 3/4	0.665	11/16	13 3/8	1 3/8	13 1/16
W 16x 57	16.8	16.43	16 3/8	0.430	3/16	1/4	7.120	7 1/8	0.715	11/16	13 3/8	1 3/8	7/8
x 50	14.7	16.26	16 1/4	0.380	3/8	3/16	7.070	7 1/8	0.630	5/8	13 3/8	1 5/16	13 1/16
x 45	13.3	16.13	16 1/8	0.345	3/8	3/16	7.035	7	0.565	3/16	13 3/8	1 1/4	13 1/16
x 40	11.8	16.01	16	0.305	3/16	3/16	6.995	7	0.505	1/2	13 3/8	1 3/16	13 1/16
x 36	10.6	15.86	15 7/8	0.295	3/16	3/16	6.985	7	0.430	1/2	13 3/8	1 1/8	3/4
W 16x 31	9.12	15.88	15 7/8	0.275	1/4	1/8	5.525	5 1/2	0.440	7/16	13 3/8	1 1/8	3/4
x 26	7.68	15.69	15 3/4	0.250	1/4	1/8	5.500	5 1/2	0.345	3/8	13 3/8	1 1/16	3/4
W 14x730	215.0	22.42	22 3/8	3.070	3 1/16	1 3/16	17.890	17 7/8	4.910	4 1/16	11 1/4	5 1/8	2 3/16
x665	196.0	21.64	21 3/8	2.830	2 1/16	1 1/16	17.650	17 7/8	4.520	4 1/2	11 1/4	5 1/16	2 1/16
x605	178.0	20.92	20 3/8	2.595	2 3/16	1 3/16	17.415	17 3/4	4.160	4 3/16	11 1/4	4 3/16	1 11/16
x550	162.0	20.24	20 1/4	2.380	2 3/16	1 3/16	17.200	17 3/4	3.820	3 1/16	11 1/4	4 1/2	1 11/16
x500	147.0	19.60	19 3/8	2.190	2 3/16	1 1/8	17.010	17	3.500	3 1/2	11 1/4	4 3/16	1 1/4
x455	134.0	19.02	19	2.015	2	1	16.835	16 3/8	3.210	3 3/16	11 1/4	3 3/8	1 1/8
W 14x426	125.0	18.67	18 5/8	1.875	1 7/8	1 1/16	16.695	16 3/4	3.035	3 1/16	11 1/4	3 11/16	1 1/8
x398	117.0	18.29	18 1/4	1.770	1 3/4	7/8	16.590	16 3/4	2.845	2 7/8	11 1/4	3 1/2	1 1/2
x370	109.0	17.92	17 3/8	1.655	1 5/8	13/16	16.475	16 1/2	2.660	2 11/16	11 1/4	3 3/8	1 1/2
x342	101.0	17.54	17 1/2	1.540	1 1/2	1 1/16	16.360	16 1/2	2.470	2 1/2	11 1/4	3 3/8	1 3/8
x311	91.4	17.12	17 1/8	1.410	1 1/16	3/4	16.230	16 1/4	2.260	2 1/4	11 1/4	2 13/16	1 1/8
x283	83.3	16.74	16 3/4	1.290	1 1/16	11/16	16.110	16 1/8	2.070	2 1/16	11 1/4	2 1/4	1 1/4
x257	75.6	16.38	16 1/2	1.175	1 1/16	5/8	15.995	16	1.890	1 7/8	11 1/4	2 1/16	1 1/8
x233	68.5	16.04	16	1.070	1 1/16	1/2	15.890	15 7/8	1.720	1 3/4	11 1/4	2 3/8	1 1/8
x211	62.0	15.72	15 3/4	0.980	1	1/2	15.800	15 3/4	1.560	1 1/16	11 1/4	2 1/4	1 1/8
x193	56.8	15.48	15 1/2	0.890	3/4	7/16	15.710	15 3/4	1.440	1 1/16	11 1/4	2 1/8	1 1/8
x176	51.8	15.22	15 1/4	0.830	3/16	7/16	15.650	15 1/2	1.310	1 3/16	11 1/4	2 1/8	1 1/8
x159	46.7	14.98	15	0.745	3/4	3/8	15.565	15 1/4	1.190	1 3/16	11 1/4	1 1/2	1 1/8
x145	42.7	14.78	14 3/4	0.680	1 1/16	3/8	15.500	15 1/2	1.090	1 1/16	11 1/4	1 1/2	1 1/8

TABLE A-1. (Continued)

Nominal Wt. per Ft.	Compact Section Criteria					r _r	d A _f	Elastic Properties						Torsional constant J	Plastic Modulus	
	b _f 2t _f	F _y '	d t _w	F _y '''	r _r			Axis X-X			Axis Y-Y				Z _x	Z _y
								I	S	r	I	S	r			
								in. ⁴	in. ³	in.	in. ⁴	in. ³	in.			
Lb.	Ksi	Ksi	Ksi	in.	in. ⁴	in. ³	in.	in. ⁴	in. ³	in.	in. ⁴	in. ³	in. ³			
46	5.0	—	50.2	26.2	1.54	4.93	712	78.8	7.25	22.5	7.43	1.29	1.22	90.7	11.7	
40	5.7	—	56.8	20.5	1.52	5.67	612	68.4	7.21	19.1	6.35	1.27	0.81	78.4	9.95	
35	7.1	—	59.0	19.0	1.49	6.94	510	57.6	7.04	15.3	5.12	1.22	0.51	66.5	8.06	
100	5.3	—	29.0	—	2.81	1.65	1490	175	7.10	186	35.7	2.51	7.73	198	54.9	
89	5.9	—	31.9	64.9	2.79	1.85	1300	155	7.05	163	31.4	2.49	5.45	175	48.1	
77	6.8	—	36.3	50.1	2.77	2.11	1110	134	7.00	138	26.9	2.47	3.57	150	41.1	
67	7.7	—	41.3	38.6	2.75	2.40	954	117	6.96	119	23.2	2.46	2.39	130	35.5	
57	5.0	—	38.2	45.2	1.86	3.23	758	92.2	6.72	43.1	12.1	1.60	2.22	105	18.9	
50	5.6	—	42.8	36.1	1.84	3.65	659	81.0	6.68	37.2	10.5	1.59	1.52	92.0	16.3	
45	6.2	—	46.8	30.2	1.83	4.06	586	72.7	6.65	32.8	9.34	1.57	1.11	82.3	14.5	
40	6.9	—	52.5	24.0	1.82	4.53	518	64.7	6.63	28.9	8.25	1.57	0.79	72.9	12.7	
36	8.1	64.0	53.8	22.9	1.79	5.28	448	56.5	6.51	24.5	7.00	1.52	0.54	64.0	10.8	
31	6.3	—	57.7	19.8	1.39	6.53	375	47.2	6.41	12.4	4.49	1.17	0.46	54.0	7.03	
26	8.0	—	62.8	16.8	1.36	8.27	301	38.4	6.26	9.59	3.49	1.12	0.26	44.2	5.48	
730	1.8	—	7.3	—	4.99	0.25	14300	1280	8.17	4720	527	4.69	1450	1660	816	
665	2.0	—	7.6	—	4.92	0.27	12400	1150	7.98	4170	472	4.62	1120	1480	730	
605	2.1	—	8.1	—	4.85	0.29	10800	1040	7.80	3680	423	4.55	870	1320	652	
550	2.3	—	8.5	—	4.79	0.31	9430	931	7.63	3250	378	4.49	670	1180	583	
500	2.4	—	8.9	—	4.73	0.33	8210	838	7.48	2880	339	4.43	514	1050	522	
455	2.6	—	9.4	—	4.68	0.35	7190	756	7.33	2560	304	4.38	395	936	468	
426	2.8	—	10.0	—	4.64	0.37	6600	707	7.26	2360	283	4.34	331	869	434	
398	2.9	—	10.3	—	4.61	0.39	6000	656	7.16	2170	262	4.31	273	801	402	
370	3.1	—	10.8	—	4.57	0.41	5440	607	7.07	1990	241	4.27	222	736	370	
342	3.3	—	11.4	—	4.54	0.43	4900	559	6.98	1810	221	4.24	178	672	338	
311	3.6	—	12.1	—	4.50	0.47	4330	506	6.88	1610	199	4.20	136	603	304	
283	3.9	—	13.0	—	4.46	0.50	3840	459	6.79	1440	179	4.17	104	542	274	
257	4.2	—	13.9	—	4.43	0.54	3400	415	6.71	1290	161	4.13	79.1	487	246	
233	4.6	—	15.0	—	4.40	0.59	3010	375	6.63	1150	145	4.10	59.5	436	221	
211	5.1	—	16.0	—	4.37	0.64	2660	338	6.55	1030	130	4.07	44.6	390	198	
193	5.5	—	17.4	—	4.35	0.68	2400	310	6.50	931	119	4.05	34.8	355	180	
176	6.0	—	18.3	—	4.32	0.74	2140	281	6.43	838	107	4.02	26.5	320	163	
159	6.5	—	20.1	—	4.30	0.81	1900	254	6.38	748	96.2	4.00	19.8	287	146	
145	7.1	—	21.7	—	4.28	0.88	1710	232	6.33	677	87.3	3.98	15.2	260	133	

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BE IT KNOWN TO ALL BY AFFIRMATION OF PROFICIENCY THAT THIS

Proclamation of Certification

A PRIVILEGE GRANTED BY THE

NATIONAL COUNCIL OF BUILDING DESIGNER CERTIFICATION

A LEGALLY CONSTITUTED BODY, ORGANIZED IN AND UNDER THE BY LAWS OF THE AMERICAN INSTITUTE OF BUILDING DESIGN, A CALIFORNIA CORPORATION. THEREFORE, THE NCBCD, BY VIRTUE OF THE AUTHORITY VESTED IN IT BY THE MEMBERS OF THE NATIONAL COUNCIL, DOES WITH HONOR, BESTOW UPON

Kathryn M. Joiner

WITH ALL THE RIGHTS AND PRIVILEGES ATTENDANT THERETO, AND BY VIRTUE OF HAVING QUALIFIED BY EXAMINATION AS PRESCRIBED AND ORDAINED BY THE NCBCD BOARD OF EXAMINERS, THE DESIGNATION

CERTIFIED PROFESSIONAL BUILDING DESIGNER

CERTIFICATE NO. 20-102

Brian D. Thomas

NCBCD PRESIDENT

DATED THIS 29 DAY OF August 19 96

Wally H. Di...

NCBCD SECRETARY