

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

Location of Construction: 430 Riverside Industrial Parkway		Owner: Unifirst Corp.		Phone: 797-4006		Permit No: 990349	
Owner Address:		Lessee/Buyer's Name:		Phone:		BusinessName:	
Contractor Name: Scott Garland, Sprinkler Sprvices		Address: P.O. Box 809, Windham, ME 04062		Phone:		<div style="border: 2px solid black; padding: 5px; text-align: center;"> PERMIT ISSUED APR 16 1999 CITY OF PORTLAND </div>	
Past Use: Commercial		Proposed Use: Same		COST OF WORK: \$ 6,800		PERMIT FEE: \$ 55.00	
				FIRE DEPT. <input type="checkbox"/> Approved <input type="checkbox"/> Denied		INSPECTION: Use Group: Type:	
				Signature: <i>[Signature]</i>		Signature: <i>[Signature]</i>	
Proposed Project Description: Sprinkler installation to new 2 story addition.				PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)			
				Action: Approved <input type="checkbox"/> Approved with Conditions: <input type="checkbox"/> Denied <input type="checkbox"/>			
Permit Taken By: UB				Date Applied For: 4-14-99			
				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

4-14-99

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

Zoning Appeal

Variance
 Miscellaneous
 Conditional Use
 Interpretation
 Approved
 Denied

Historic Preservation

Not in District or Landmark
 Does Not Require Review
 Requires Review

Action:

Approved
 Approved with Conditions
 Denied

Date: _____

CEO DISTRICT +

COMMENTS

- Fire Dept. has information on this. ~~§~~
Work Completed -

Inspection Record

Type	Date
Foundation: _____	_____
Framing: _____	_____
Plumbing: _____	_____
Final: _____	_____
Other: _____	_____

BUILDING PERMIT REPORT

DATE: 13 February 1999 ADDRESS: 430 Riverside Ind. PKwy CBL 354-B-002
REASON FOR PERMIT: To Construct a 4000 sq addition block of steel
BUILDING OWNER: Unifirst Corp.
CONTRACTOR: Bay State Industry Welding & Fabrication.
PERMIT APPLICANT: _____
USE GROUP B BOCA 1996 CONSTRUCTION TYPE 2B

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, *10, *18, *19, *20, *24, *31, *32, *33, *34.

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)
- 2.5 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
- 6 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)
3. Precaution must be taken to protect concrete from freezing. Section 1908.0
4. 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.
5. 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)
6. 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
7. Sound transmission control in residential building shall be done in accordance with Chapter 12 section 1214.0 of the city's building code.
8. 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 34" 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)
9. Headroom in habitable space is a minimum of 7'6". (Section 1204.0)
10. Stair construction in Use Group R-3 & R-4 is a minimum of 10" tread and 7 3/4" maximum rise. All other Use group minimum 11" tread, 7" maximum rise. (Section 1014.0)
- * 1. The minimum headroom in all parts of a stairway shall not be less than 80 inches. (6' 8") 1014.4
12. 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)

13. 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
14. All vertical openings shall be enclosed with construction having a fire rating of at least one (1) hour, including fire doors with self closer's. (Over 3 stories in height requirements for fire rating is two (2) hours.) Section 710.0
15. The boiler shall be protected by enclosing with (1) hour fire-rated construction including fire doors and ceiling, or by providing automatic extinguishment. Table 302.1.1
16. All single and multiple station smoke detectors shall be of an approved type and shall be installed in accordance with the provisions of the City's Building Code Chapter 9, Section 920.3.2 (BOCA National Building Code/1996), and NFPA 101 Chapter 18 & 19. (Smoke detectors shall be installed and maintained at the following locations):

- In the immediate vicinity of bedrooms
- In all bedrooms
- In each story within a dwelling unit, including basements

In addition to the required AC primary power source, required smoke detectors in occupancies in Use Groups R-2, R-3 and I-1 shall receive power from a battery when the AC primary power source is interrupted. (Interconnection is required) Section 920.3.2

17. A portable fire extinguisher shall be located as per NFPA #10. They shall bear the label of an approved agency and be of an approved type. Section 921.0
18. The Fire Alarm System shall be maintained to NFPA #72 Standard.
19. The Sprinkler System shall maintained to NFPA #13 Standard.
20. All exit signs, lights, and means of egress lighting shall be done in accordance with Chapter 10 Section & Subsections 1023. & 1024. Of the City's building code. (The BOCA National Building Code/1996)
21. Section 25-135 of the Municipal Code for the City of Portland states, "No person or utility shall be granted a permit to excavate or open any street or sidewalk from the time of November 15 of each year to April 15 of the following year".
22. The builder of a facility to which Section 4594-C of the Maine State Human Rights Act Title 5 MRSA refers, shall obtain a certification from a design professional that the plans commencing construction of the facility, the builder shall submit the certification to the Division of Inspection Services.
23. Ventilation shall meet the requirements of Chapter 12 Sections 1210. Of the City's Building Code. (crawl spaces & attics)
24. All electrical, plumbing and HVAC permits must be obtained by a Master Licensed holders of their trade. No closing in of walls until all electrical (min. 72 hours notice) and plumbing inspections have been done.
25. All requirements must be met before a final Certificate of Occupancy is issued.
26. All building elements shall meet the fastening schedule as per Table 2305.2 of the City's Building Code. (The BOCA National Building Code/1996).
27. Ventilation of spaces within a building shall be done in accordance with the City's Mechanical Code (The BOCA National Mechanical Code/1993). (Chapter M-16)
28. Please read and implement the attached Land Use-Zoning report requirements.
29. Boring, cutting and notching shall be done in accordance with Sections 2305.4.4, 2305.5.1 and 2305.3. of the City's building code.
30. Glass and glazing shall meet the requirements of Chapter 24 of the building code.


*31. This proposed project will require STATE fire Marshal's approval -

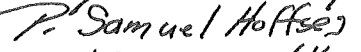
*32. Mortar for masonry construction shall conform to ASTM C 270.

*33. Open-web Steel Joist shall be designed and constructed in accordance with the standard specifications of SJI.

34. All welding shall be inspected as per section 1705.3.3.2 of the building code.

Please call me if you have any questions on these requirements.


P. Samuel Hoffsey Building Inspector


P. Samuel Hoffsey
267-824-8264

cc: Lt. McDougall, PFD
Marge Schmuckal, Zoning Administrator

BUILDING PERMIT REPORT

DATE: 4/15/99 ADDRESS: 430 Riverside Industrial Parkway CBL: 354-B-002

REASON FOR PERMIT: install sprinkler

BUILDING OWNER: Un. First Corp

PERMIT APPLICANT: _____

USE GROUP F-1/B BOCA 1996 CONSTRUCTION TYPE 2B

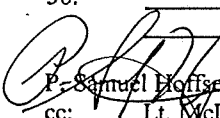
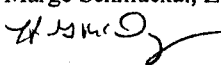
CONDITION(S) OF APPROVAL

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Approved with the following conditions: *1, *22, *34

- *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)
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10. Sound transmission control in residential building shall be done in accordance with Chapter 12, Section 1214.0 of the City's Building Code.
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18. The boiler shall be protected by enclosing with (1)hour fire rated construction including fire doors and ceiling, or by providing automatic extinguishment. (Table 302.1.1)
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24. Section 25-135 of the Municipal Code for the City of Portland states, "No person or utility shall be granted a permit to excavate or open any street or sidewalk from the time of November 15 of each year to April 15 of the following year".
25. The builder of a facility to which Section 4594-C of the Maine State Human Rights Act Title 5 MRSA refers, shall obtain a certification from a design professional that the plans commencing construction of the facility, the builder shall submit the certification the Division of Inspection Services.
26. Ventilation shall meet the requirements of Chapter 12 Sections 1210.0 of the City's Building Code. (Crawl spaces & attics).
27. All electrical, plumbing and HVAC permits must be obtained by a Master Licensed holders of their trade. No closing in of walls until all electrical (min. 72 hours notice) and plumbing inspections have been done.
28. All requirements must be met before a final Certificate of Occupancy is issued.
29. All building elements shall meet the fastening schedule as per Table 2305.2 of the City's Building Code (the BOCA National Building Code/1996).
30. Ventilation of spaces within a building shall be done in accordance with the City's Mechanical Code (The BOCA National Mechanical Code/1993). (Chapter M-16)
31. Please read and implement the attached Land Use Zoning report requirements.
32. Boring, cutting and notching shall be done in accordance with Sections 2305.4.4, 2305.5.1 and 2305.5.3 of the City's Building Code.
33. Glass and glazing shall meet the requirements of Chapter 24 of the building code.
34. ANY new or addition to a Fire sprinkler system (more than 5 new heads or 20 additional heads) will require State Fire Marshall Office approval.
35. _____


 P- Samuel Hoffes, Building Inspector
 cc: Lt. McDougall, PFD
 Marge Schmuckal, Zoning Administrator
 PSH 12-14-98 

**On the basis of plans submitted and conditions placed on these plans any deviations shall require a separate approval.



CITY OF PORTLAND

November 13, 1998

Unifirst Corporation
430 Riverside Industrial Parkway
Portland, ME 04103

re: 430 Riverside Industrial Parkway, Building Addition

Dear Sir:

On November 2, 1998 the Portland Planning Authority granted minor site plan approval for a building addition located at 430 Riverside Industrial Parkway with the following conditions:

- i. that the applicant fill a low area along Riverside Industrial Parkway where ponding is occurring.
- ii. that the applicant install curb between the parking area and the walkway, which runs along the proposed addition.

The approval is based on the submitted site plan. If you need to make any modifications to the approved site plan, you must submit a revised site plan for staff review and approval.

Please note the following provisions and requirements for all site plan approvals:

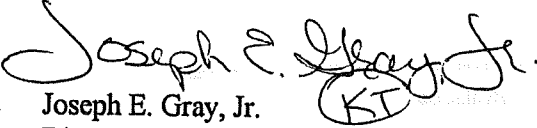
1. The site plan approval will be deemed to have expired unless work in the development has commenced within one (1) year of the approval or within a time period agreed upon in writing by the City and the applicant. A one year extension may be granted by this department if requested by the applicant in writing prior to the expiration date of the site plan.
2. A performance guarantee in a form acceptable to the City of Portland and an inspection fee equal to 1.7% of the performance guarantee will have to be posted before beginning any site construction or issuance of a building permit.
3. A defect guarantee, consisting of 10% of the performance guarantee, must be posted before the performance guarantee will be released.

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1. Prior to construction, a preconstruction meeting shall be held at the project site with the contractor, development review coordinator, Public Work's representative and owner to review the construction schedule and critical aspects of the site work. At that time, the site/building contractor shall provide three (3) copies of a detailed construction schedule to the attending City representatives. It shall be the contractor's responsibility to arrange a mutually agreeable time for the preconstruction meeting.
5. If work will occur within the public right-of-way such as utilities, curb, sidewalk and driveway construction, a street opening permit(s) is required for your site. Please contact Carol Merritt at 874-8300, ext. 8828. (Only excavators licensed by the City of Portland are eligible.)
6. 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 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.

If there are any questions, please contact the Planning Staff.

Sincerely,

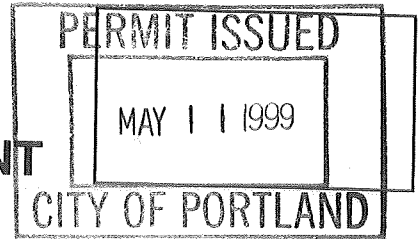

Joseph E. Gray, Jr.
Director of Planning and Urban Development

cc: Alexander Jaegerman, Chief Planner
Kandice Talbot, Planner
P. Samuel Hoffses, Building Inspector
Marge Schmuckal, Zoning Administrator
Tony Lombardo, Project Engineer
Development Review Coordinator
William Bray, Director of Public Works
Jeff Tarling, City Arborist
Penny Littell, Associate Corporation Counsel
Lt. Gaylen McDougall, Fire Prevention
— Mary Gresik, Building Permit Secretary
Kathleen Brown, Director of Economic Development
Susan Doughty, Assessor's Office
Approval Letter File



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



990456

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 430 Riverside Ind Pkwy/354 B 002 Use of Building Commercial Date 5/10/99

Name and address of owner of appliance Unifirst, 430 Riverside Ind Pkwy

Installer's name and address Allen Oulette Heating, P.O. Box 777 Scarborough ME 04070

Telephone 883-1627

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: TRANE

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # _____
- Solid Fuel # _____
- Oil # _____
- Gas # PNT 519
- Other _____

Type of Chimney:

NA

- Masonry Lined
Factory built _____
- Metal
Factory Built U.L. Listing # _____
- Direct Vent
Type _____ UL# _____

Type of Fuel Tank

CITY MAIN

- Oil
- Gas

Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 10,500.00

Permit Fee: \$ 75.00

Approved

Fire: [Signature]

Ele.: _____

Bldg.: [Signature]

Approved with Conditions

- See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer [Signature]

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy

SAM

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

**Building or Use Permit Pre-Application
Attached Single Family Dwellings/Two-Family Dwelling
Multi-Family or Commercial Structures and Additions Thereto**

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 (include Portion of Building): 430 RIVERSIDE IND. PARKWAY (NEW ADDITION)			
Total Square Footage of Proposed Structure 4000 (2 STORIES)		Square Footage of Lot ?	
Tax Assessor's Chart, Block & Lot Number Chart# 354 Block# B Lot# 002		Owner: UNIFIRST CORP	Telephone#: 797-4006
Owner's Address: 430 RIVERSIDE IND. PARKWAY PORTLAND, ME 04103		Lessee/Buyer's Name (If Applicable) N/A	Cost Of Work: Fee \$ 6,800 \$55.00
Proposed Project Description:(Please be as specific as possible) NEW ADDITION TO UNIFIRST BLDG (2 STORY ADDN) - SPRINKLER INSTALLATION ONLY * Scott Garland			
Contractor's Name, Address & Telephone * SPRINKLER SERVICES, PO BOX 809, WINDHAM, ME 04062			Rec'd By UB
Current Use: COMMERCIAL UNIFORM SERVICE		Proposed Use: SAME	

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 B.O.C.A. 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/Site Plan

Minor or Major site plan review will be required for the above proposed projects. The attached checklist outlines the minimum standards for a site plan.

4) Building Plans

Unless exempted by State Law, construction documents must be designed by a registered design professional.

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

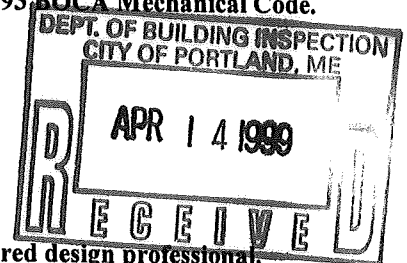
- Cross Sections w/Framing details (including porches, decks w/ railings, and accessory structures)
- Floor Plans & Elevations
- Window and door schedules
- Foundation plans with required drainage and dampproofing
- Electrical and plumbing layout. Mechanical drawings for any specialized equipment such 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: 	Date: 4/14/99
---	---------------

Building Permit Fee: \$25.00 for the 1st \$1000. cost plus \$5.00 per \$1,000.00 construction cost thereafter.
Additional Site review and related fees are attached on a separate addendum



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

19980135

I. D. Number

First Corporation
Applicant
68 Jonspin Rd, Wilmington, MA 01887
Applicant's Mailing Address
William E. Whited PE RA
Consultant/Agent
774-2135
Applicant or Agent Daytime Telephone, Fax

10/14/98

Application Date

Addition

Project Name/Description

430 Riverside Ind Pky

Address of Proposed Site

354-b-002

Assessor's Reference: Chart-Block-Lot

DRC Conditions of Approval

- that the applicant fill a low area along Riverside Industrial Parkway where ponding is occurring.

Planning Conditions of Approval

- that the applicant install curb between the parking area and the walkway, which runs along the new addition.

Inspections Conditions of Approval

Fire Conditions of Approval

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

19980135

I. D. Number

1st Corporation
Applicant
68 Jonspin Rd, Wilmington, MA 01887
Applicant's Mailing Address
William E. Whited PE RA
Consultant/Agent
774-2135
Applicant or Agent Daytime Telephone, Fax

10/14/98
Application Date
Addition
Project Name/Description

430 Riverside Ind Pky
Address of Proposed Site
354-b-002
Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply):
 Office Retail Manufacturing Warehouse/Distribution Parking Lot Other (specify) _____
 New Building Building Addition Change Of Use Residential
7,000 sq. ft. **3.75** **IM**
Proposed Building square Feet or # of Units Acreage of Site 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 **\$400.00** Subdivision _____ Engineer Review **\$96.00** Date: **1/28/99**

Inspections Approval Status:

Reviewer **Marge Schmuckal**

Approved Approved w/Conditions see attached Denied
Approval Date **2/12/99** 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 checked="" type="checkbox"/> Performance Guarantee Accepted	<u>1/21/99</u> date	<u>\$9,888.00</u> amount	<u>4/16/00</u> expiration date
<input checked="" type="checkbox"/> Inspection Fee Paid	<u>1/28/99</u> date	<u>\$300.00</u> 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	_____ date	<input type="checkbox"/> Conditions (See Attached)	
<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			

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

19980135

I. D. Number

ifirst Corporation
Applicant
68 Jonspin Rd, Wilmington, MA 01887
Applicant's Mailing Address
William E. Whited PE RA
Consultant/Agent
774-2135
Applicant or Agent Daytime Telephone, Fax

10/14/98
Application Date
Addition
Project Name/Description

430 Riverside Ind Pky
Address of Proposed Site
354-b-002
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) _____
7,000 sq. ft. 3.75
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 \$400.00 Subdivisio _____ Engineer Review \$96.00 Date 1/28/99

Planning Approval Status:

Reviewer Kandice Talbot

- Approved Approved w/Conditions
See Attached Denied

Approval Date 11/2/98 Approval Expiration 11/2/99 Extension to _____ Additional Sheets
Attached
 OK to Issue Building Permi Kandi Talbot 1/28/99
signature date

Performance Guarantee Required* Not Required

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

<input checked="" type="checkbox"/> Performance Guarantee Accepted	<u>1/21/99</u> date	<u>\$9,888.00</u> amount	<u>4/16/00</u> expiration date
<input checked="" type="checkbox"/> Inspection Fee Paid	<u>1/28/99</u> date	<u>\$300.00</u> amount	
<input type="checkbox"/> Building Permit Issue	_____ date		
<input type="checkbox"/> Performance Guarantee Reduced	_____ date	_____ remaining balance	_____ signature
<input type="checkbox"/> Temporary Certificate of Occupancy	_____ date	<input type="checkbox"/> Conditions (See Attached)	
<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	_____ date	_____ signature	

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

19980135
I. D. Number

first Corporation
Applicant
68 Jonspin Rd, Wilmington, MA 01887
Applicant's Mailing Address
William E. Whited PE RA
Consultant/Agent
774-2135
Applicant or Agent Daytime Telephone, Fax

10/14/98
Application Date
Addition
Project Name/Description

430 Riverside Ind Pky
Address of Proposed Site
354-b-002
Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply):
 Office Retail Manufacturing Warehouse/Distribution Building Addition Change Of Use Residential
 New Building Parking Lot Other (specify) _____
7,000 sq. ft. **3.75**
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 **\$400.00** Subdivision _____ Engineer Review **\$96.00** Date: **1/28/99**

DRC Approval Status:

Reviewer **Jim Wendel**

- Approved Approved w/Conditions see attache Denied

Approval Date **11/2/98** Approval Expiration **11/2/99** Extension to _____ Additional Sheets Attached
 Condition Compliance **Jim Wendel** **1/28/99**
signature date

Performance Guarantee

Required* Not Required

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

<input checked="" type="checkbox"/> Performance Guarantee Accepted	1/21/99 date	\$9,888.00 amount	4/16/00 expiration date
<input checked="" type="checkbox"/> Inspection Fee Paid	1/28/99 date	\$300.00 amount	
<input type="checkbox"/> Building Permit	_____ date		
<input type="checkbox"/> Performance Guarantee Reduced	_____ date	_____ remaining balance	_____ signature
<input type="checkbox"/> Temporary Certificate Of Occupancy	_____ date	<input type="checkbox"/> Conditions (See Attached)	
<input type="checkbox"/> Final Inspection	_____ date	_____ signature	
<input type="checkbox"/> Certificate Of Occupancy	_____ date	_____ signature	
<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	_____ date	_____ signature	

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

19980135

I. D. Number

Unifirst Corporation

licant
 68 Jonspin Rd, Wilmington, MA 01887
 Applicant's Mailing Address
 William E. Whited PE RA
 Consultant/Agent
 774-2136
 Applicant or Agent Daytime Telephone, Fax

10/14/98

Application Date

Addition

Project Name/Description

430 Riverside Ind Pky

Address of Proposed Site

354-b-002

Assessor's Reference: Chart-Block-Lot

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

7,000 sq. ft.

3.76

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 **\$400.00** Subdivision _____ Engineer Review _____ Date: **10/14/98**

Fire Approval Status:

Reviewer **Lt. Mc Dougall**

- Approved** **Approved w/Conditions** **Denied**
 see attached
- Approval Date **10/15/98** Approval Expiration **10/15/98** Extension to _____ Additional Sheets Attached
- Condition Compliance **Lt. Mc Dougall** **10/15/98**
 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 | _____ | _____ | |
| | date | signature | |

430 Riverside Ind Pky

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

**Building or Use Permit Pre-Application
Attached Single Family Dwellings/Two-Family Dwelling
Multi-Family or Commercial Structures and Additions Thereto**

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

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

Location/Address of Construction (Include Portion of Building): <u>430 Riverside Industrial Parkway</u>			
Total Square Footage of Proposed Structure <u>4000 SF</u>		Square Footage of Lot <u>3.75 acs.</u>	
Tax Assessor's Chart, Block & Lot Number Chart <u>354</u> Block# <u>6</u> Lot# <u>000</u>	Owner: <u>UNIFIRST CORPORATION</u>	Telephone: <u>207 797-4006</u>	
Owner's Address: <u>430 Riverside Industrial Parkway</u>	Lessee/Buyer's Name (If Applicable) <u>N/A.</u>	Cost Of Work: <u>\$ Approx 240,000</u>	Fee <u>\$1250.00</u>
Proposed Project Description (Please be as specific as possible) <u>4000 SF block + steel addition. with 2nd floor mezzanine This space is for storage only. no plumbing.</u>			
Contractor's Name, Address & Telephone <u>Bay State incl. welding + fabrication</u>			Rec'd By <u>SP</u>
Current Use: <u>Commercial Laundry</u>		Proposed Use: <u>Commercial Laundry</u>	

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

- All construction must be conducted in compliance with the 1996 R.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

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/Site Plan

Minor or Major site plan review will be required for the above proposed projects. The attached checklist outlines the minimum standards for a site plan.

4) Building Plans

Unless exempted by State Law, construction documents must be designed by a registered design professional.

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

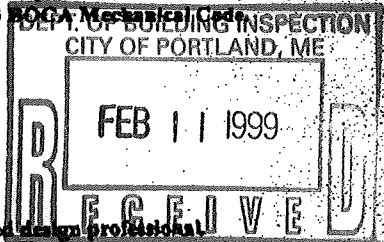
- Cross Sections w/ Framing details (including porches, decks w/ railings, and accessory structures)
- Floor Plans & Elevations
- Window and door schedules
- Foundation plans with required drainage and dampproofing
- Electrical and plumbing layout. Mechanical drawings for any specialized equipment such 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: <u>Edward E. May Jr. S.</u>	Date: <u>11/10/98</u>
---	-----------------------

Building Permit Fee: \$25.00 for the 1st \$1000. cost plus \$5.00 per \$1,000.00 construction cost thereafter.
Additional Site review and related fees are attached on a separate addendum



*Mail to
William Whitcomb
P.O. Box 127
Portland, ME 04112*

William E. Whited, Inc.

Architect - Engineer
P.O. Box 127
Portland, ME 04112
(207) 774 2135

Transmittal

TO: City of Portland
Building Inspection Dept.
389 Congress Street
Portland, ME 04101

DATE: 02-11-99
RE: UniFirst Corp.
Riverside Industrial Parkway

HAND DELIVERED

We are sending you Attached Under separate cover via _____ the following items:

- Shop Drawings Prints Plans Samples
- Copy of Letter Change Order Specifications Other

COPIES	DATE	NO.	DESCRIPTION
1			Set of Drawings - Dwgs Nos. 1, 2, 3, 4, and 5
1			Application for Building Permit
1			Cashiers Check in the amount of \$1,250.00 (No.152062336)

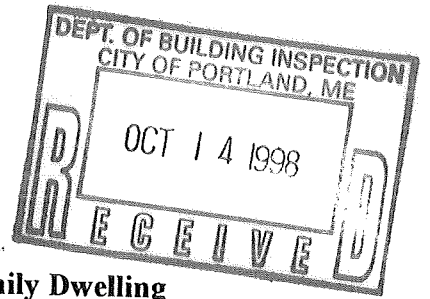
These are transmitted as checked below:

- For Approval Approved as Submitted Resubmit
- For Your Use Approved as Noted Returned for Corrections
- As Requested For Review and Comment _____

REMARKS:

COPY TO:

SIGNED: William Whited



Site Review Pre-Application
Multi-Family/Attached Single Family Dwellings/Two-Family Dwelling
or Commercial Structures and Additions Thereto

In the interest of processing your application in the quickest possible manner, please complete the Information below for Site Plan Review

NOTE**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.

Applicant: UniFirst Corporation

Application Date: 10-9-98

Applicant's Mailing Address: 68 Jonspin Road, Wilmington, MA 01887

Project Name/Description

UniFirst Corp. Expansion

Consultant/Agent: William E. Whited, P.E., R.A.

Address Of Proposed Site: 430 Riverside Industrial Parkway

Applicant/Agent Daytime telephone and FAX: 774-2135 FAX 879-5579

Assessor's Reference, Chart#, Block, Lot#

Proposed Development (Check all that apply) New Building Building Addition X Change of Use Residential Office Retail Manufacturing Warehouse/Distribution Other(Specify) Laundry - Distribution

Existing - 42,250 Sq. Ft.
Addition - 7,000 Sq. Ft.
TOTAL - 49,250 Sq. Ft.
3.75 Acreage of Site

Industrial II Zoning

CBL 354-B-2

You must include the following with you application:

- 1) A Copy of Your Deed or Purchase and Sale Agreement
2) 7 sets of Site Plan packages containing the information found in the attached sample plans and checklist.

(Section 14-522 of the Zoning Ordinance outlines the process, copies are available for review at the counter, photocopies are \$ 0.25 per page)

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 an approval for the proposed project or use 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 approval at any reasonable hour to enforce the provisions of the codes applicable to this approval.

Signature of applicant: William E. Whited Date: 10-09-98

Site Review Fee: Major \$500.00 Minor 400.00

This application is for site review ONLY, a Building Permit application and associated fees will be required prior to construction.

**CITY OF PORTLAND, MAINE
SITE PLAN CHECKLIST**

UniFirst Corp. Expansion, 430 Riverside Indus. Pkwy
Project Name, Address of Project

I.d. Number

Submitted () & Date	Item	Required Information	Section 14-525 (b,c)
<u>N.A.</u>	(1)	Standard boundary survey (stamped by a registered surveyor, at a scale of not less than 1 inch to 100 feet and including:	1
<u>X</u>	(2)	Name and address of applicant and name of proposed development	a
<u>X</u>	(3)	Scale and north points	b
<u>X</u>	(4)	Boundaries of the site	c
<u>X</u>	(5)	Total land area of site	d
<u>N.A.</u>	(6)	Topography - existing and proposed (2 feet intervals or less)	e
	(7)	Plans based on the boundary survey including:	2
<u>N.A.</u>	(8)	Existing soil conditions	a
<u>N.A.</u>	(9)	Location of water courses, marshes, rock outcroppings and wooded areas	b
<u>X</u>	(10)	Location, ground floor area and grade elevations of building and other structures existing and proposed, elevation drawings of exterior facades, and materials to be used	c
<u>X</u>	(11)	Approximate location of buildings or other structures on parcels abutting the site	d
<u>X</u>	(12)	Location of on-site waste receptacles	e
<u>X</u>	(13)	Public utilities	e
<u>X</u>	(14)	Water and sewer mains	e
<u>X</u>	(15)	Culverts, drains, existing and proposed, showing size and directions of flows	e
<u>X</u>	(16)	Location and dimensions, and ownership of easements, public or private rights-of-way, both existing and proposed	f
<u>X</u>	(17)	Location and dimensions of on-site pedestrian and vehicular accessways	g
<u>X</u>	(18)	Parking areas	g
<u>X</u>	(19)	Loading facilities	g
<u>X</u>	(20)	Design of ingress and egress of vehicles to and from the site onto public streets	g
<u>X</u>	(21)	Curb and sidewalks	g
	(22)	Landscape plan showing:	h
<u>X</u>	(23)	Location of existing proposed vegetation	h
<u>X</u>	(24)	Type of vegetation	h
<u>X</u>	(25)	Quantity of plantings	h
<u>X</u>	(26)	Size of proposed landscaping	h
<u>X</u>	(27)	Existing areas to be preserved	h
<u>X</u>	(28)	Preservation measures to be employed	h
<u>X</u>	(29)	Details of planting and preservation specifications	h
<u>X</u>	(30)	Location and dimensions of all fencing and screening	i
<u>X</u>	(31)	Location and intensity of outdoor lighting system	j
<u>X</u>	(32)	Location of fire hydrants, existing and proposed	k
<u>X</u>	(33)	Written statement	c
<u>X</u>	(34)	Description of proposed uses to be located on site	1
<u>N.A.</u>	(35)	Quantity and type of residential, if any	1
<u>X</u>	(36)	Total land area of the site	b2
<u>X</u>	(37)	Total floor area and ground coverage of each proposed building and structure	b2
<u>X</u>	(38)	General summary of existing and proposed easements or other burdens	c3
<u>X</u>	(39)	Method of handling solid waste disposal	4

<u> X </u>	(40)	Applicant's evaluation of availability of off-site public facilities, including sewer, water and streets	5
<u> X </u>	(41)	Description of any problems of drainage or topography, or a representation that there are none	6
<u> X </u>	(42)	An estimate of the time period required for completion of the development	7
<u> X </u>	(43)	A list of all state and federal regulatory approvals to which the development may be subject	8
<u> X </u>	(44)	The status of any pending applications	8
<u> X </u>	(45)	Anticipated timeframe for obtaining such permits	h8
<u> X </u>	(46)	A letter of non jurisdiction	h8
<u> X </u>	(47)	Evidence of financial and technical capability to undertake and complete the development including a letter from a responsible financial institution stating that is has reviewed the planned development and would seriously consider financing it when approved.	

Note: Depending on the size and scope of the proposed development, the Planning Board or Planning Authority may request additional information, including (but not limited to):

- drainage patterns and facilities;
- erosion and sedimentation controls to be used during construction;
- a parking and/or traffic study;
- a noise study;
- an environmental impact study;
- a sun shadow study;
- a study of particulates and any other noxious emissions; and
- a wind impact analysis.

Other comments:

This project proposes to demolish a 1,000 sq. ft. wing on the existing building and
replace it with a 40 x 100 ft. two-story wing, thereby adding 7,000 sq. ft. to the
building. The increased ground footprint of the building is 3,000 sq. ft. for a
total of 45,250 sq. ft. of ground footprint. The area where most of this addition
will be constructed is paved. A 50 ft. by 20 ft. landscaped area to be within the
new building lines will be mitigated by a 100 ft. by 10 ft. planting area along the
south wall of the addition. There will be no significant increase in impervious
surfaces on the site; therefore, a new run-off analysis is not justified.

William E. Whited, Inc.

Architect - Engineer
P.O. Box 127
Portland, ME 04112
(207) 774 2135

Transmittal

TO: City of Portland
Building Inspection Dept.
389 Congress Street
Portland, ME 04101

DATE: 10-14-98

RE: UniFirst Corp.
Riverside Industrial
Parkway

HAND DELIVERED

We are sending you Attached Under separate cover via _____ the following items:

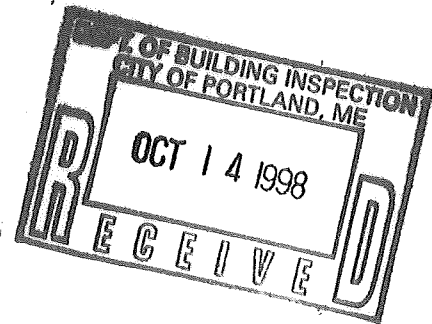
- Shop Drawings Prints Plans Samples
- Copy of Letter Change Order Specifications Other

COPIES	DATE	NO.	DESCRIPTION
7			Site Plan Application Booklets
7			Sets of Drawings - Geometric Layout, Dwgs. #1 thru #5
1			Check #6544 for \$400

These are transmitted as checked below:

- For Approval Approved as Submitted Resubmit
- For Your Use Approved as Noted Returned for Corrections
- As Requested For Review and Comment _____

REMARKS:



COPY TO:

SIGNED: William Whited



SPRINKLER SERVICES

P.O. BOX 809 • 5 LAMB STREET
WINDHAM, ME 04062
1-207-892-1415 • 1-800-400-1415
FAX 1-207-892-2707

TRANSMITTAL RECORD

Date 4-9-99

Job No. 99-013

To: CITY OF PORTLAND
CITY HALL
PORTLAND, ME

Job UNIFIRST ADDN
PORTLAND, ME

Attention: INSPECTIONS

Gentlemen:

- 2 copies of SPRINKLER SHOP DRAWINGS (1 OF 1, DATED 4-9-99)
- 2 copies of HYDRAULIC CALCS PRG. (4 PGS, DATED 4-9-99)
- 1 copies of CHECK "5101 FOR \$55.00 PERMIT FEE
- ___ copies of _____
- ___ copies of _____
- ___ copies of _____
- ___ copies of _____
- ___ copies of _____

- are enclosed herewith approved
- approved except as noted
- approved as noted, resubmit.....
- disapproved (see remarks)
- for your approval or comments
- for your information and use
- for your files
- per your request

Remarks: PLEASE RETURN 1 PERMIT. PLEASE FORWARD ONE SET OF PLANS
& CALCULATIONS TO THE FIRE DEPT. WE HAVE APPLIED FOR PERMIT
FROM STATE FIRE MANUAL.

Very truly yours,

Scott E. Garland

By SCOTT E. GARLAND, SECT. RMS
DESIGN MANAGER



SPRINKLER SERVICES

P.O. BOX 809 • 5 LAMB STREET
WINDHAM, ME 04062
1-207-892-1415 • 1-800-400-1416
FAX 1-207-892-2707

HYDRAULIC DESIGN INFORMATION SHEET

NAME UNIFIRST Addition DATE 4-9-99
 LOCATION 430 RIVERSIDE INDUSTRIAL PARKWAY, PORTLAND, ME 04103
 BUILDING _____ SYSTEM NO. _____
 CONTRACTOR BAY STATE INDUSTRIAL CONTRACT NO. 99-013
 CALCULATED BY SCOT E. GARLAND DRAWING NO. 1 of 1
 CONSTRUCTION: COMBUSTIBLE NON-COMBUSTIBLE CEILING HEIGHT VARIES FT.
 OCCUPANCY COMMERCIAL UNIFORM SERVICE - STORAGE

SYSTEM DESIGN

NFPA 13: LT. HAZ. ORD. HAZ. GP. 1 2 3 EX. HAZ.
 NFPA 231 NFPA 231C: FIGURE _____; CURVE _____
 OTHER (Specify) _____
 SPECIFIC RULING _____ MADE BY _____ DATE _____

AREA OF SPRINKLER OPERATION	<u>1500 SF</u>	SYSTEM TYPE <input checked="" type="checkbox"/> WET <input type="checkbox"/> DRY <input type="checkbox"/> DELUGE <input type="checkbox"/> PRE-ACTION SPRINKLER OR NOZZLE MAKE <u>RELIABLE</u> MODEL <u>6" BU</u> SIZE <u>1/2" x 1/2"</u> K-FACTOR <u>5.62</u> TEMPERATURE RATING <u>165°</u>
DENSITY	<u>.20</u>	
AREA PER SPRINKLER	<u>130 MAX</u>	
HOSE ALLOWANCE GPM: INSIDE	<u>—</u>	
HOSE ALLOWANCE GPM: OUTSIDE	<u>250</u>	
RACK SPRINKLER ALLOWANCE	<u>—</u>	

CALCULATION SUMMARY
 GPM REQUIRED 342.46 PSI REQUIRED 67.02 AT BASE OF RISER.
 "C" FACTOR USED: OVERHEAD 120 UNDERGROUND 140

WATER SUPPLY

WATER FLOW TEST DATE & TIME <u>10/22/97</u> STATIC PSI <u>85</u> RESIDUAL PSI <u>83</u> GPM FLOWING <u>1678</u> ELEVATION <u>150"</u>	PUMP DATA RATED CAPACITY _____ AT PSI _____ ELEVATION _____	TANK OR RESERVOIR CAPACITY _____ ELEVATION _____ <u>WELL</u> PROOF FLOW _____ GPM
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LOCATION ON RIVERSIDE INDUSTRIAL PARKWAY 3600' FROM BLDG
 SOURCE OF INFORMATION PORTLAND WATER DISTRICT

COMMODITY STORAGE

COMMODITY _____ CLASS _____ LOCATION _____
 STORAGE HEIGHT _____ AREA _____ AISLE WIDTH _____
 STORAGE METHOD: SOLID PILED _____% PALLETIZED _____% RACK _____%

SINGLE ROW CONVENTIONAL PALLET AUTOMATIC STORAGE ENCAPSULATED
 DOUBLE ROW SLAVE PALLET SOLID SHELVING NON-ENCAPSULATED
 MULTIPLE ROW OPEN

RACK
 FLUE SPACING IN INCHES
 LONGITUDINAL _____ TRANSVERSE _____
 CLEARANCE FROM TOP OF STORAGE TO CEILING
 _____ FT. _____ IN.
 HORIZONTAL BARRIERS PROVIDED _____

SPRINKLER SERVICES
HYDRAULIC CALCULATIONS

4-9-99, UNIFIRST ADDITION, 99-013, C= 120

PAGE NUMBER 2

REF PT#	K	GPM	TOTAL GPM	PIPE I.D.	PIPE LTH	EQUIV FTGS	LOSS /FT	TOTAL LOSS	TOTAL PSI	JCT PT#
===	=====	=====	=====	=====	=====	=====	=====	=====	=====	===
1	5.62	23.30	23.30	1.049	0.000	0.00	0.1726	0.00	17.19	
1	0.00	0.00	23.30	1.049	11.583	0.00	0.1726	2.00	17.19	1
2	5.62	24.62	47.92	1.380	12.500	0.00	0.1723	2.15	19.19	2
3	5.62	25.96	73.88	1.380	12.500	0.00	0.3839	4.80	21.34	3
4	5.62	28.73	102.61	1.610	12.500	0.00	0.3328	4.16	26.14	4
A	0.00	0.00	102.61	1.610	12.500	0.00	0.3328	4.16	30.30	A
B	0.00	0.00	102.61	2.067	1.583	10.00	0.0986	1.14	34.46	B
CT	0.00	0.00	102.61	2.067	1.083	10.00	0.0986	1.09	35.60	CT
	ELEVATION = 1.083 FEET							0.47	36.69	C
C	0.00	0.00	102.61	3.260	9.833	0.00	0.0107	0.11	37.16	
D	16.83	102.76	205.38	3.260	9.625	0.00	0.0387	0.37	37.27	D
E	16.83	103.27	308.65	3.260	10.000	0.00	0.0822	0.82	37.64	E
	K = 49.7672								38.46	F
									19.79	
13	5.62	25.00	25.00	1.610	12.500	0.00	0.0244	0.31	20.09	M
M	0.00	0.00	25.00	1.610	12.500	0.00	0.0244	0.31	20.40	N
N	0.00	0.00	25.00	2.067	1.583	10.00	0.0072	0.08	20.48	FT
FT	0.00	0.00	25.00	2.067	1.083	10.00	0.0072	0.08	20.56	F
	ELEVATION = 1.083 FEET							0.47	21.03	
	K = 5.4514 > 33.81								38.46	
F	49.77	308.65	342.46	3.260	10.750	18.00	0.0996	2.86	41.33	G
G	0.00	0.00	342.46	3.260	25.583	28.00	0.0996	5.34	46.66	P
P	0.00	0.00	342.46	3.026	8.083	0.00	0.1432	1.16	47.82	Q
Q	0.00	0.00	342.46	3.548	25.833	41.00	0.0660	4.41	52.23	R
R	0.00	0.00	342.46	4.026	132.667	10.00	0.0356	5.08	57.31	S
S	0.00	0.00	342.46	6.065	78.750	28.00	0.0048	0.52	57.83	RT
RT	0.00	0.00	342.46	6.065	12.583	30.00	0.0048	0.21	58.04	RB
	ELEVATION = 20.75 FEET							8.98	67.02	
	K = 41.8308									

DESIGN AREA -1 2ND FLOOR STORAGE ADDN
 . 20 | 1500 + 250
 (HYDRAULICALLY MOST REMOTE AREA)

CONTRACT NO. 99-013

Loss Thru U.C.

SHEET NO 3 OF 4

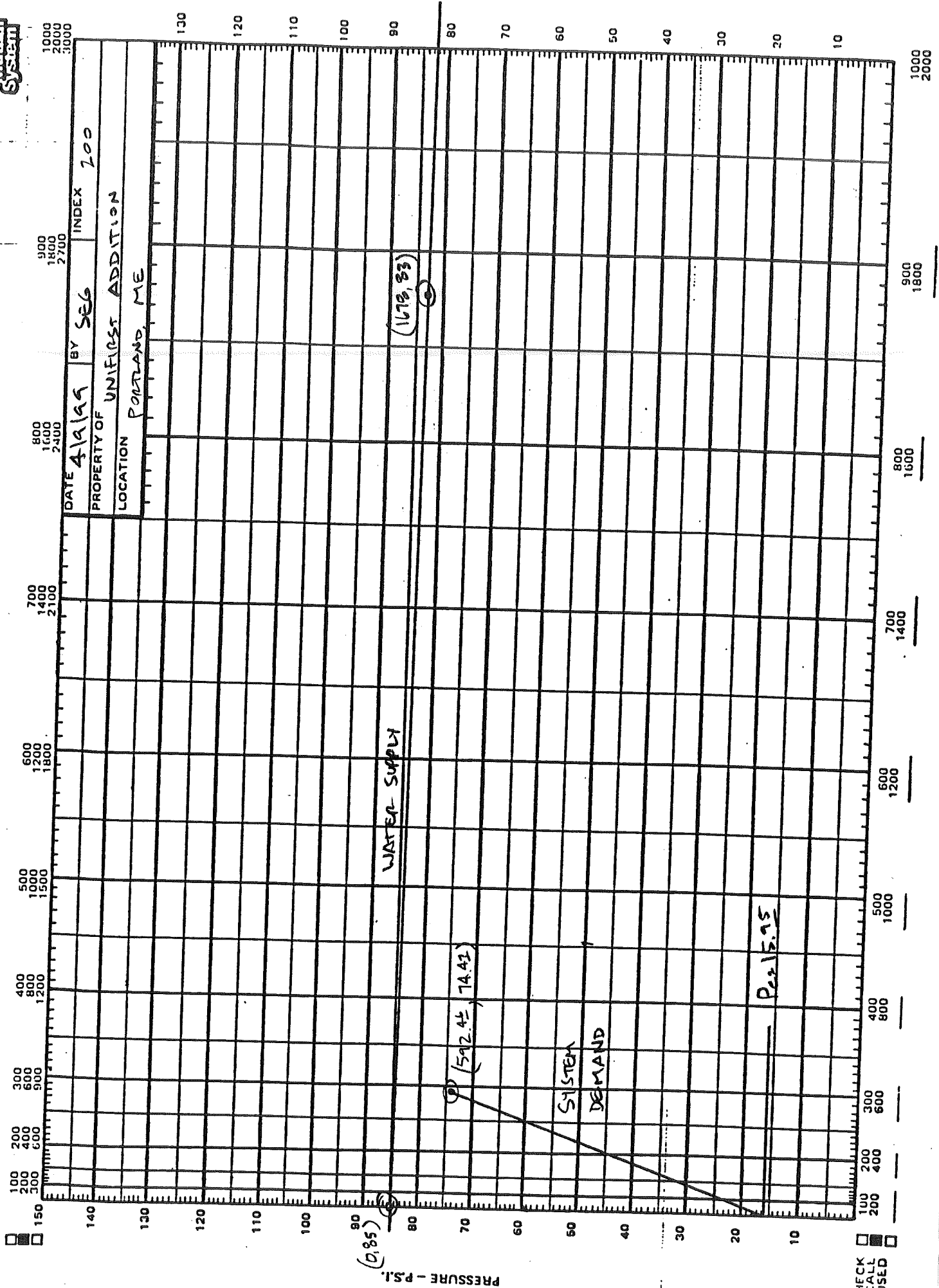
NAME UNIFIRST ADDITION

DATE 4-9-99

LOCATION Portland, ME

NOZZLE TYPE & LOCATION	FLOW IN G.P.M.	PIPE SIZE	FITTING & DEVICES	PIPE EQUIV. LENGTH	FRICTION LOSS P.S.I./FT	REQUIRED P.S.I.	HYD. REF. PT	ELEV.	NOTES
C-140 RB	0 - Q342.46	6"	W,T,L	LGTH. 130.0	.0042	PT 67.02	RB		
				FTG. 63.0		PF .81			
				TOT. 193.0		PE -			
C-140 X1	0 - Q342.46	16"	4-22 1/2 EL	LGTH. 3600.0	.00004	PT 67.02	X1	15.0	
				FTG. 50.0		PF .15			
				TOT. 3650.0		PE 6.50			
Hose	Q250.02 Q592.42			LGTH.		PT 74.42	X2		
				FTG.		PF			
				TOT.		PE			
	Q			LGTH.		PT			Pavail @ Q=592.46 = 84.71 psi
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			Preq @ Q=592.46 = 74.42 psi
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			Pcushion = 10.24 psi
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			
	Q			LGTH.		PT			
	Q			FTG.		PF			
	Q			TOT.		PE			

WATER SUPPLY GRAPH NO. N 1.85



DATE 4/1/19 INDEX 200
 PROPERTY OF UNIFIRST ADDITION
 LOCATION PORTLAND, ME

0.85
 (1678, 80)
 (592.4, 74.4)
 PRESSURE - P.S.I.

Per 15.95

CHECK
 SCALL
 USED


SPRINKLER SERVICES
HYDRAULIC CALCULATIONS

4-9-99, UNIFIRST ADDITION, 99-013, C= 120

PAGE NUMBER 2

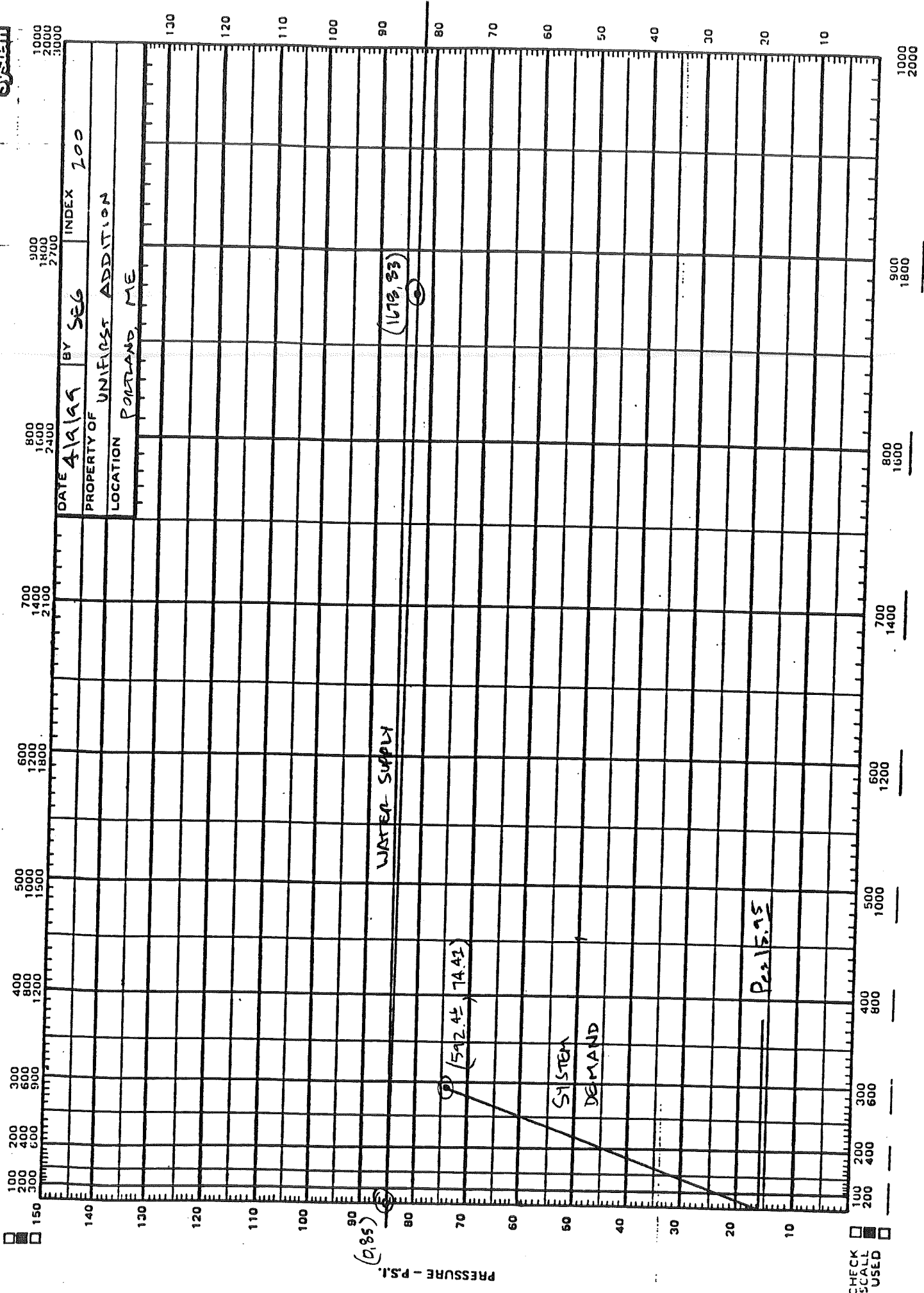
REF PT#	K	GPM	TOTAL GPM	PIPE I.D.	PIPE LTH	EQUIV FTGS	LOSS /FT	TOTAL LOSS	TOTAL PSI	JCT PT#
====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
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4	5.62	28.73	102.61	1.610	12.500	0.00	0.3328	4.16	26.14	4
A	0.00	0.00	102.61	1.610	12.500	0.00	0.3328	4.16	30.30	A
B	0.00	0.00	102.61	2.067	1.583	10.00	0.0986	1.14	34.46	B
CT	0.00	0.00	102.61	2.067	1.083	10.00	0.0986	1.09	35.60	CT
ELEVATION = 1.083 FEET										
C	0.00	0.00	102.61	3.260	9.833	0.00	0.0107	0.47	36.69	C
D	16.83	102.76	205.38	3.260	9.625	0.00	0.0387	0.11	37.16	D
E	16.83	103.27	308.65	3.260	10.000	0.00	0.0822	0.37	37.27	E
K = 49.7672								0.82	37.64	F
									38.46	
13	5.62	25.00	25.00	1.610	12.500	0.00	0.0244	0.31	19.79	
M	0.00	0.00	25.00	1.610	12.500	0.00	0.0244	0.31	20.09	M
N	0.00	0.00	25.00	2.067	1.583	10.00	0.0072	0.08	20.40	N
FT	0.00	0.00	25.00	2.067	1.083	10.00	0.0072	0.08	20.48	FT
ELEVATION = 1.083 FEET										
K = 5.4514 > 33.81								0.47	20.56	F
F	49.77	308.65	342.46	3.260	10.750	18.00	0.0996	2.86	21.03	
G	0.00	0.00	342.46	3.260	25.583	28.00	0.0996	5.34	38.46	G
P	0.00	0.00	342.46	3.026	8.083	0.00	0.1432	1.16	41.33	P
Q	0.00	0.00	342.46	3.548	25.833	41.00	0.0660	4.41	46.66	Q
R	0.00	0.00	342.46	4.026	132.667	10.00	0.0356	5.08	47.82	R
S	0.00	0.00	342.46	6.065	78.750	28.00	0.0048	0.52	52.23	S
RT	0.00	0.00	342.46	6.065	12.583	30.00	0.0048	0.21	57.31	RT
ELEVATION = 20.75 FEET										
K = 41.8308								8.98	57.83	RB
									67.02	

DESIGN AREA -1 2ND FLOOR STORAGE ADDN
 . . 20 | 1500 + 250
 (HYDRAULICALLY MOST REMOTE AREA)

NOZZLE TYPE & LOCATION	FLOW IN G.P.M.	PIPE SIZE	FITTING & DEVICES	PIPE EQUIV. LENGTH	FRICTION LOSS P.S.I./FT	REQUIRED P.S.I.	HYD. REF. PT 	ELEV.	NOTES
C=140	0	6"		LGTH. 130.0		PT 67.02	RB		
RB	Q342.46	CLDI	W, T, L	FTG. 63.0	.0042	PF .81			
				TOT. 193.0		PE —			
C=140	0	16"		LGTH. 3600.0		PT 67.83	X1		
X1	Q342.46	CLDI	4-22 1/2" EL	FTG. 50.0	.00004	PF .15			
				TOT. 3650.0		PE 6.52		15.0	
Hose	Q250.02			LGTH.		PT 74.47	X2		
	Q592.46			FTG.		PF			
				TOT.		PE			
Q				LGTH.		PT			
Q				FTG.		PF			
Q				TOT.		PE			
Q				LGTH.		PT			Partial c @ 592.46
Q				FTG.		PF			= 84.71 psi
Q				TOT.		PE			
Q				LGTH.		PT			Pres c @ 592.46
Q				FTG.		PF			= 74.47 psi
Q				TOT.		PE			
Q				LGTH.		PT			Penetration
Q				FTG.		PF			= 10.24 psi
Q				TOT.		PE			
Q				LGTH.		PT			
Q				FTG.		PF			
Q				TOT.		PE			
Q				LGTH.		PT			
Q				FTG.		PF			
Q				TOT.		PE			
Q				LGTH.		PT			
Q				FTG.		PF			
Q				TOT.		PE			
Q				LGTH.		PT			
Q				FTG.		PF			
Q				TOT.		PE			
Q				LGTH.		PT			
Q				FTG.		PF			
Q				TOT.		PE			
Q				LGTH.		PT			
Q				FTG.		PF			
Q				TOT.		PE			
Q				LGTH.		PT			
Q				FTG.		PF			
Q				TOT.		PE			
Q				LGTH.		PT			
Q				FTG.		PF			
Q				TOT.		PE			
Q				LGTH.		PT			
Q				FTG.		PF			
Q				TOT.		PE			
Q				LGTH.		PT			
Q				FTG.		PF			
Q				TOT.		PE			



WATER SUPPLY GRAPH NO. N 1.85



CHECK
SCALE
USED