

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

Location of Construction: 511 Congress St (Fleet Plaza)		Owner: October Corp/Noice		Phone:		Permit No: 951058	
Owner Address:		Leasee/Buyer's Name:		Phone:		Business Name:	
Contractor Name: Sprinkler Systems, Inc.		Address: 2-4 Aven St P.O. Box 1285 Leviston, ME 04243-1285		Phone: 782-1285		<div style="border: 2px solid black; padding: 5px; text-align: center;"> PERMIT ISSUED Permit Issued: OCT - 6 1995 CITY OF PORTLAND </div>	
Past Use: Office Bldg		Proposed Use: Same		COST OF WORK: \$ 10,000.00		PERMIT FEE: \$ 70.00	
Proposed Project Description: Install Sprinkler System				FIRE DEPT. <input type="checkbox"/> Approved <input type="checkbox"/> Denied		INSPECTION: Use Group: Type:	
				Signature: <i>[Signature]</i>		Signature: <i>[Signature]</i>	
				PEDESTRIAN ACTIVITIES DISTRICT (P.U.D.)		Zoning Approval:	
				Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved with Conditions <input type="checkbox"/> Denied		Special Zone or Reviews: <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan maj <input type="checkbox"/> minor <input type="checkbox"/> mm <input type="checkbox"/>	
Permit Taken By: Mary Grosik		Date Applied For: 05 Oct 95					

1. This permit application doesn't 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 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

SIGNATURE OF APPLICANT <i>[Signature]</i> Scott Garland		ADDRESS:		DATE: 05 Oct 95		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

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: *11/3/95*

[Signature]

CEO DISTRICT Z
 WING
[Signature]

BUILDING PERMIT REPORT

DATE 10/5/95

ADDRESS 561 Congress St

REASON FOR PERMIT Sprinkler Installation

BUILDING OWNER October Corp

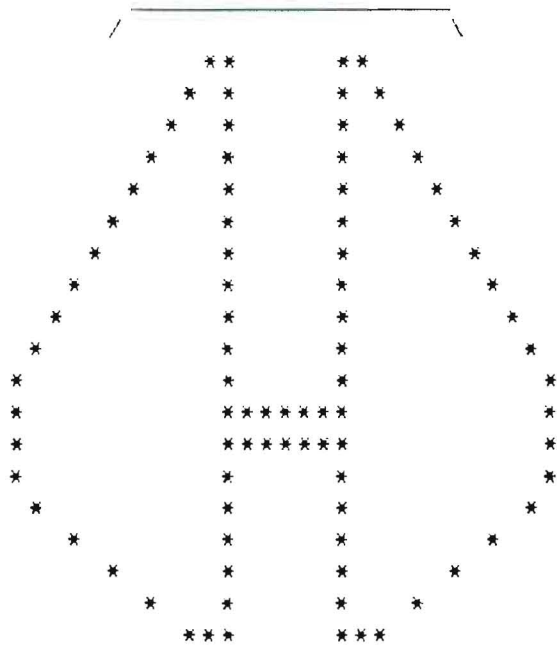
CONTRACTOR Sprinkler Systems Inc

PERMIT APPLICANT Scott G. Gal

APPROVED / DENIED _____

CONDITIONS OF APPROVAL:

1. A 4" storz fire department connection is required.
2. ~~Any new sprinkler construction over 6 sprinkler heads needs to have State Fire Marshall approval.~~
3. ~~Any renovations of sprinkler systems over 20 sprinkler heads needs to have State Fire Marshall approval.~~
4. A sprinkler performance test shall be submitted to the Portland Fire Department after completion of sprinkler work.



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...FIRE PROTECTION BY COMPUTER DESIGN

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*****  
*           SPRINKLER SYSTEMS INC.           *  
*           LEWISTON, ME 04240                *  
*           207-782-0104                      *  
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* CONTRACTOR           SPRINKLER SYSTEMS INC.           *  
* NAME                 511 CONGRESS ST. 8TH FLOOR      *  
* LOCATION             511 CONGRESS STREET. PORTLAND.  MAINE *  
* SYSTEM NO.          1                                 *  
* CONTRACT NO.        95044                            *  
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SPRINKLER SYSTEMS INC.

 LEWISTON, ME 04240
 207-782-0104

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HYDRAULIC DESIGN INFORMATION SHEET

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NAME 511 CONGRESS ST. STANDPIPE DATE 10/04/95
 LOCATION 511 CONGRESS STREET, PORTLAND, MAINE
 BUILDING EXISTING SYSTEM NO. EX.STPIPE
 CONTRACTOR SPRINKLER SYSTEMS INC. CONTRACT NO. 95044
 CALCULATED BY CDS DRAWING NO. 1-1 OF 1
 CONSTRUCTION: () COMBUSTIBLE (X) NON-COMBUSTIBLE CEILING HEIGHT
 OCCUPANCY OFFICES

S ! () NFPA 13 () LT. HAZ. ORD. HAZ. GP. () 1 () 2 () 3 () EX. HAZ.
 Y ! () NFPA 231 () NFPA 231C FIGURE 2-2.1.1B CURVE
 S ! (X) OTHER N.F.P.A. 14
 T ! () SPECIFIC RULING MADE BY DATE
 E !
 M ! AREA OF SPRINKLER OPERATION 0 SYSTEM TYPE
 ! DENSITY- GPM 0 (X) WET () DRY () DELUGE () PREACTION
 D ! AREA PER SPRINKLER 0 SPRINKLER OR NOZZLE
 E ! HOSE ALLOWANCE GPM-INSIDE 500 MAKE MODEL
 S ! HOSE ALLOWANCE GPM-OUTSIDE 0 SIZE K-FACTOR 0
 I ! RACK SPRINKLER ALLOWANCE 0 TEMPERATURE RATING
 G !
 N !

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CALCULATION ! GPM REQUIRED 500 PSI REQUIRED 148.94 AT BASE OF RISER
 SUMMARY ! C FACTOR USED: OVERHEAD 120 UNDERGROUND 140

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W ! WATER FLOW TEST ^{SEE PUMP TEST} ! PUMP DATA ! TANK OR RESERVOIR
 A ! DATE OF TEST ^{RESULTS ON PLAN} 10/4 ! RATED CAP 500 ! CAP. 0
 T ! TIME OF TEST ! AT PSI 90 ! ELEV. 0
 E ! STATIC (PSI) 0 ! ELEV 0 !
 R ! RESIDUAL (PSI) 0 ! ! WELL
 ! FLOW (GPM) 0 ! ! PROOF FLOW GPM 0
 S ! ELEVATION PUMP DISCHARGE ! !
 U !
 P !

P ! LOCATION : 6" IN STREET
 L ! SOURCE OF INFORMATION : S.S.I. AND PORTLAND WATER DISTRICT
 Y !

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COMMODITY	CLASS	LOCATION
STORAGE HT.	AREA	AISLE WIDTH
STORAGE METHOD: SOLID PILED %	PALLETIZED %	RACK %
! () SINGLE ROW	() CONVEN. PALLET	() AUTO. STORAGE
! R ! () DOUBLE ROW	() SLAVE PALLET	() SOLID SHELVING
S ! A ! () MULTIPLE ROW	() OPEN SHELVING	() NON-ENCAF.
T ! C !		
O ! K ! FLUE SPACING:		CLEARANCE: STORAGE TO CEILING
R ! ! LONGITUDINAL	TRANSVERSE	
A ! !		
G ! ! HORIZONTAL BARRIERS PROVIDED:		
E ! !		

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UNITS - DIAMETER (INCH) LENGTH (FOOT) FLOW (GPM) PRESSURE (PSI)

 FIRE PROTECTION--BY COMPUTER DESIGN

HYDRLC. REF. POINT	QA FLOW QT	"C" DIA. LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	FT FV FN	***** NOTES *****
HV1	500.00	2.469 C=120		0.50 31.00	65.00 0.00		QA= 500.0 FT= 65.00 VELOCITY = 33.49
	500.00	0.7765	31.00F.	31.50	24.46		
A	0.00	6.065 C=120		12.00	89.46		QA= 0.0 FT= 89.46 VELOCITY = 5.55
	500.00	0.0097		12.00	0.12		
B	0.00	6.065 C=120		12.00	89.58		QA= 0.0 FT= 89.58 VELOCITY = 5.55
	500.00	0.0097		12.00	0.12		
C	0.00	6.065 C=120		12.00	89.70		QA= 0.0 FT= 89.70 VELOCITY = 5.55
	500.00	0.0097		12.00	0.12		
D	0.00	6.065 C=120		12.00	89.82		QA= 0.0 FT= 89.82 VELOCITY = 5.55
	500.00	0.0097		12.00	0.12		
E	0.00	6.065 C=120		12.00	89.94		QA= 0.0 FT= 89.94 VELOCITY = 5.55
	500.00	0.0097		12.00	0.12		
F	0.00	6.065 C=120		12.00	90.06		QA= 0.0 FT= 90.06 VELOCITY = 5.55
	500.00	0.0097		12.00	0.12		
G	0.00	6.065 C=120	4E14.0	24.00 56.00	90.18 0.00		QA= 0.0 FT= 90.18 VELOCITY = 5.55
	500.00	0.0097		80.00	0.78		
H	0.00	6.065 C=120	4E14.0	26.00 86.00	90.96 0.00		QA= 0.0 FT= 90.96 VELOCITY = 5.55
	500.00	0.0097	1T30.0	112.00	1.09		
I	0.00	6.065 C=120	2E14.0	29.00 28.00	92.05 0.00		QA= 0.0 FT= 92.05 VELOCITY = 5.55
	500.00	0.0097		57.00	0.56		
J	0.00	6.065 C=120	1E14.0	17.00 44.00	92.61 0.00		QA= 0.0 FT= 92.61 VELOCITY = 5.55
	500.00	0.0097	1T30.0	61.00	0.60		
K	0.00	6.065 C=120	1E14.0	5.00 49.00	93.21 0.00		QA= 0.0 FT= 93.21 VELOCITY = 5.55
	500.00	0.0097	35.00F.	54.00	0.53		
100	0.00	3.065 C=120		0.75 0.00	93.74 55.00		QA= 0.0 FT= 93.74 VELOCITY = 21.73
	500.00	0.2709		0.75	0.20		PE= FOR HT. OF 126.5

HYDRLC.	QA	DIA.	EQUIV.	PIPE	PT	PT	
REF.	FLOW	"C"	FITTING	FTGS.	FE	PV	***** NOTES *****
POINT	QT	LOSS/F	LENGTHS	TOT.	PF	FN	
	500.00				148.94		K 33= 40.970
PUMP							

SPRINKLER SYSTEMS INC.

 LEWISTON, ME 04240
 207-782-0104

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HYDRAULIC DESIGN INFORMATION SHEET

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NAME 511 CONGRESS ST. 9TH FLOOR DATE 10/04/95
 LOCATION 511 CONGRESS STREET, PORTLAND, MAINE
 BUILDING EXISTING SYSTEM NO. 1
 CONTRACTOR SPRINKLER SYSTEMS INC. CONTRACT NO. 95044
 CALCULATED BY CDS DRAWING NO. 1-1 OF 1
 CONSTRUCTION: () COMBUSTIBLE (X) NON-COMBUSTIBLE CEILING HEIGHT
 OCCUPANCY OFFICES

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S ! (X) NFPA 13 (X) LT. HAZ. ORD. HAZ. GP. () 1 () 2 () 3 () EX. HAZ.
 Y ! () NFPA 231 () NFPA 231C FIGURE 2-2.1.1B CURVE
 S ! () OTHER
 T ! () SPECIFIC RULING MADE BY DATE
 E !

M ! AREA OF SPRINKLER OPERATION 1500 SYSTEM TYPE
 ! DENSITY- GPM .1 (X) WET () DRY () DELUGE () PREACTION
 D ! AREA PER SPRINKLER 225 SPRINKLER OR NOZZLE
 E ! HOSE ALLOWANCE GPM-INSIDE 0 MAKE RELIABLE MODEL "G"
 S ! HOSE ALLOWANCE GPM-OUTSIDE 100 SIZE 1/2" K-FACTOR 5.62
 I ! RACK SPRINKLER ALLOWANCE 0 TEMPERATURE RATING 165
 G !
 N !

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CALCULATION ! GPM REQUIRED 346.75 PSI REQUIRED 149.26 AT BASE OF RISER
 SUMMARY ! C FACTOR USED: OVERHEAD 120 UNDERGROUND 140

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W ! WATER FLOW TEST *SEE Pump TEST RESULTS ON PLAN 1 of 1* ! PUMP DATA ! TANK OR RESERVOIR
 A ! DATE OF TEST ! RATED CAP 500 ! CAP. 0
 T ! TIME OF TEST ! AT PSI 90 ! ELEV. 0
 E ! STATIC (PSI) 0 ! ELEV 0 !
 R ! RESIDUAL (PSI) 0 ! ! WELL
 ! FLOW (GPM) 0 ! ! PROOF FLOW GPM 0
 S ! ELEVATION PUMP DISCHARGE ! !

=====

P ! LOCATION : 6" IN STREET
 L ! SOURCE OF INFORMATION : S.S.I. AND PORTLAND WATER DISTRICT
 Y !

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COMMODITY	CLASS	LOCATION
! STORAGE HT.	AREA	AISLE WIDTH
! STORAGE METHOD: SOLID FILED %	PALLETIZED %	RACK %
M !		
! () SINGLE ROW () CONVEN. PALLET () AUTO. STORAGE () ENCAP.		
! R ! () DOUBLE ROW () SLAVE PALLET () SOLID SHELVING () NON-ENCAF		
S ! A ! () MULTIPLE ROW () OPEN SHELVING		
T ! C !		
O ! K ! FLUE SPACING:		CLEARANCE: STORAGE TO CEILING
R ! ! LONGITUDINAL	TRANSVERSE	
A ! !		
G ! ! HORIZONTAL BARRIERS PROVIDED:		
E ! !		

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UNITS - DIAMETER (INCH) LENGTH (FOOT) FLOW (GPM) PRESSURE (PSI)

 FIRE PROTECTION--BY COMPUTER DESIGN

HYDRLC. REF. POINT	QA FLOW QT	"C" DIA. LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	PT PV PN	***** NOTES *****
TYP	22.50	1.049 C=120	OE 2.0 1T 5.0	1.00 5.00 6.00	16.03 0.00 0.97		Q=K*SQR(P):P= 16.03 K= 5.620 V = 8.35
DROP	22.50	0.1618			17.00		K 23= 5.460
1-1	22.51	1.049 C=120	OE 2.0 1T 5.0	0.50 5.00 5.50	17.00 0.00 0.89		Q=K*SQR(P):P= 17 K= 5.460 V = 8.35
1	22.51	0.1619			17.89		K 24= 5.320
ARM	22.50	1.049 C=120	1E 2.0 1T 5.0	2.50 7.00 9.50	16.03 0.00 1.54		Q=K*SQR(P):P= 16.03 K= 5.620 V = 8.35
2-4	22.50	0.1618			17.57		K 25= 5.370
2-1	22.99	1.049 C=120	1E 2.0	11.00 2.00 13.00	16.74 0.00 2.19		Q=K*SQR(P):P= 16.74 K= 5.620 V = 8.53
2-2	22.51	1.049 C=120		7.50 0.00 7.50	18.93 0.00 4.47	18.93 1.93 17.00	K= 5.460 P= 17.00 VELOCITY = 16.88
2-3	25.68	1.452 C=120	2E 4.0	13.00 8.00 21.00	23.40 0.00 5.87	23.40 1.28 22.12	K= 5.460 P= 22.12 VELOCITY = 13.78
2-4	27.79	1.452 C=120	OE 4.0 1T 8.0	15.00 8.00 23.00	29.27 0.00 11.84	29.27 2.48 26.79	K= 5.370 P= 26.79 VELOCITY = 19.16
2	98.97	0.5147			41.11		K 26= 15.440
3-1	22.50	1.049 C=120	2E 2.0	15.50 4.00 19.50	16.03 0.00 3.16		Q=K*SQR(P):P= 16.03 K= 5.620 V = 8.35
3-2	22.70	1.049 C=120		14.00 0.00 14.00	19.19 0.00 8.23	19.19 1.90 17.29	K= 5.460 P= 17.29 VELOCITY = 16.77

HYDRLC. REF. POINT	QA FLOW QT	DIA. "C" LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	PT PV PN	***** NOTES *****
3-3	26.01 71.21	1.049 C=120 1.3635		12.50 0.00 12.50	27.42 0.00 17.04	27.42 4.72 22.70	K= 5.460 P= 22.70 VELOCITY = 26.42
3-4	35.21 106.42	1.452 C=120 0.5886	0E 4.0 1T 8.0	1.50 8.00 9.50	44.46 0.00 5.59	44.46 2.87 41.59	K= 5.460 P= 41.59 VELOCITY = 20.61
3	106.42				50.05		K 27= 15.040
ARM	22.50 22.50	1.049 C=120 0.1618	1E 2.0 1T 5.0	1.50 7.00 8.50	16.03 0.00 1.38		Q=K*SQR(P) :P= 16.03 K= 5.620 V = 8.35
4-1	22.50				17.41		K 28= 5.390
4-1	22.50 22.50	1.049 C=120 0.1618		12.00 0.00 12.00	17.42 0.00 1.94		Q=K*SQR(P) :P= 17.42 K= 5.390 V = 8.35
4-2	22.81 45.31	1.049 C=120 0.5907		12.00 0.00 12.00	19.36 0.00 7.09	19.36 1.91 17.45	K= 5.460 P= 17.45 VELOCITY = 16.81
4-3	27.36 72.67	1.452 C=120 0.2906	0E 4.0 1T 8.0	4.00 8.00 12.00	26.45 0.00 3.49	26.45 1.34 25.11	K= 5.460 P= 25.11 VELOCITY = 14.07
4	72.67				29.94		K 29= 13.280
1	37.64 37.64	2.635 C=120 0.0047		2.50 0.00 2.50	50.07 0.00 0.01		Q=K*SQR(P) :P= 50.07 K= 5.320 V = 2.21
2	108.72 146.36	2.635 C=120 0.0582	2E 6.0	13.00 12.00 25.00	50.08 0.00 1.46	50.08 0.50 49.58	K= 15.440 P= 49.58 VELOCITY = 8.60
3	106.40 252.76	2.635 C=120 0.1601		8.50 0.00 8.50	51.54 0.00 1.36	51.54 1.49 50.05	K= 15.040 P= 50.05 VELOCITY = 14.86
4	93.99 346.75	2.635 C=120 0.2873	0E 6.0 1T12.0 12.00F.	52.50 24.00 76.50	52.90 0.00 21.99	52.90 2.81 50.09	K= 13.280 P= 50.09 VELOCITY = 20.39

HYDRLC. REF. POINT	QA FLOW QT	DIA. "C" LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	PT PV PN	***** NOTES *****
6	346.75				74.89		K 30= 40.070
6	346.75	2.635 C=120	1E 6.0	22.50 6.00	74.89 0.00		QA= 346.7 PT= 74.89 VELOCITY = 20.39
	346.75	0.2873		28.50	8.19		
7	0.00	3.068 C=120	2E 7.0	12.00	83.08		QA= 0.0 PT= 83.08 VELOCITY = 15.04
	346.75	0.1369	2T15.0 2.00F.	46.00 58.00	0.00 7.95		
8	0.00	4.026 C=120	0E10.0	5.00	91.03		QA= 0.0 PT= 91.03 VELOCITY = 8.73
	346.75	0.0364	1T20.0 4.00F.	24.00 29.00	0.00 1.06		
A	346.75				92.09		K 31= 36.130
A	346.75	6.065 C=120		12.00 0.00	92.09 0.00		QA= 346.7 PT= 92.09 VELOCITY = 3.85
	346.75	0.0049		12.00	0.06		
B	0.00	6.065 C=120		12.00 0.00	92.15 0.00		QA= 0.0 PT= 92.15 VELOCITY = 3.84
	346.75	0.0049		12.00	0.06		
C	0.00	6.065 C=120		12.00 0.00	92.21 0.00		QA= 0.0 PT= 92.21 VELOCITY = 3.84
	346.75	0.0049		12.00	0.06		
D	0.00	6.065 C=120		12.00 0.00	92.27 0.00		QA= 0.0 PT= 92.27 VELOCITY = 3.84
	346.75	0.0049		12.00	0.06		
E	0.00	6.065 C=120		12.00 0.00	92.33 0.00		QA= 0.0 PT= 92.33 VELOCITY = 3.84
	346.75	0.0049		12.00	0.06		
F	0.00	6.065 C=120		12.00 0.00	92.39 0.00		QA= 0.0 PT= 92.39 VELOCITY = 3.84
	346.75	0.0049		12.00	0.06		
G	0.00	6.065 C=120	4E14.0	24.00 56.00	92.45 0.00		QA= 0.0 PT= 92.45 VELOCITY = 3.84
	346.75	0.0049		80.00	0.40		
H	0.00	6.065 C=120	4E14.0	26.00 86.00	92.85 0.00		QA= 0.0 PT= 92.85 VELOCITY = 3.84
	346.75	0.0049	1T30.0	112.00	0.56		

HYDRLC. REF. POINT	QA FLOW QT	DIA. "C" LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	PT PV PN	***** NOTES *****
I	0.00 346.75	6.065 C=120 0.0049	2E14.0	29.00 28.00 57.00	93.41 0.00 0.28		QA= 0.0 FT= 93.41 VELOCITY = 3.84
J	0.00 346.75	6.065 C=120 0.0049	1E14.0 1T30.0	17.00 44.00 61.00	93.69 0.00 0.30		QA= 0.0 FT= 93.69 VELOCITY = 3.84
K	0.00 346.75	6.065 C=120 0.0049	1E14.0 35.00F.	5.00 49.00 54.00	93.99 0.00 0.27		QA= 0.0 FT= 93.99 VELOCITY = 3.84
100	0.00 346.75	3.065 C=120 0.1376		0.75 0.00 0.75	94.26 0.00 0.10		QA= 0.0 FT= 94.26 VELOCITY = 15.07
PUMP	100.00 446.75	6.065 C=120 0.0079		0.00 0.00 0.00	94.36 55.00 0.00		QA= 100.0 FT= 94.36 VELOCITY = 4.95 PE= FOR HT. OF 126.5
HOSE	446.75				149.36		K 32= 36.560

HYDRLC. REF. POINT	QA FLOW QT	"C" DIA. LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	PT PV PN	***** NOTES *****
5-1	22.50 22.50	1.049 C=120 0.1618	1E 2.0 1T 5.0	6.00 7.00 13.00	16.03 0.00 2.10		Q=K*SQR(P):P= 16.03 K= 5.620 V = 8.35
5A	22.50				18.13		K 34= 5.280
5-2	22.50 22.50	1.049 C=120 0.1618	1E 2.0 1T 5.0	3.50 7.00 10.50	16.03 0.00 1.70		Q=K*SQR(P):P= 16.03 K= 5.620 V = 8.35
5A	22.50				17.73		K 35= 5.340
ARM	22.50 22.50	1.049 C=120 0.1618	1E 2.0 1T 5.0	6.00 7.00 13.00	16.03 0.00 2.10		Q=K*SQR(P):P= 16.03 K= 5.620 V = 8.35
5-3	22.50				18.13		K 36= 5.280
ARM	22.50 22.50	1.049 C=120 0.1618	1E 2.0 1T 5.0	2.00 7.00 9.00	16.03 0.00 1.46		Q=K*SQR(P):P= 16.03 K= 5.620 V = 8.35
5-4	22.50				17.49		K 37= 5.380
5A	45.22 45.22	1.049 C=120 0.5886		8.00 0.00 8.00	18.13 0.00 4.71		Q=K*SQR(P):P= 18.13 K= 10.620 V = 16.75
5-3	24.54 69.76	1.452 C=120 0.2694		6.00 0.00 6.00	22.84 0.00 1.62	22.84 1.23 21.61	K= 5.280 P= 21.61 VELOCITY = 13.51
5-4	25.33 95.09	1.452 C=120 0.4779	2E 4.0	14.00 8.00 22.00	24.46 0.00 10.52	24.46 2.29 22.17	K= 5.380 P= 22.17 VELOCITY = 18.41
5-5	31.25 126.34	1.687 C=120 0.3894		12.00 0.00 12.00	34.98 0.00 4.67	34.98 2.22 32.76	K= 5.460 P= 32.76 VELOCITY = 18.12
5-6	32.82 159.16	1.687 C=120 0.5970	0E 4.0 1T 8.0	4.00 8.00 12.00	39.65 0.00 7.16	39.65 3.52 36.13	K= 5.460 P= 36.13 VELOCITY = 22.83

HYDRLC. REF. POINT	QA FLOW QT	DIA. "C" LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	PT PV PN	***** NOTES *****
5	159.16				46.81		K 38= 23.260

SPRINKLER SYSTEMS INC.

LEWISTON, ME 04240
207-782-0104

HYDRAULIC DESIGN INFORMATION SHEET

NAME 511 CONGRESS ST. 8TH FLOOR DATE 10/04/95
 LOCATION 511 CONGRESS STREET, PORTLAND, MAINE
 BUILDING EXISTING SYSTEM NO. 1
 CONTRACTOR SPRINKLER SYSTEMS INC. CONTRACT NO. 95044
 CALCULATED BY CDS DRAWING NO. 1-1 OF 1
 CONSTRUCTION: () COMBUSTIBLE (X) NON-COMBUSTIBLE CEILING HEIGHT
 OCCUPANCY OFFICES

S ! (X) NFPA 13 (X) LT. HAZ. ORD. HAZ. GP. () 1 () 2 () 3 () EX. HAZ.
 Y ! () NFPA 231 () NFPA 231C FIGURE 2-2.1.1B CURVE
 S ! () OTHER
 T ! () SPECIFIC RULING MADE BY DATE
 E !
 M ! AREA OF SPRINKLER OPERATION 1500 SYSTEM TYPE
 ! DENSITY- GPM .1 (X) WET () DRY () DELUGE () PREACTION
 D ! AREA PER SPRINKLER 225 SPRINKLER OR NOZZLE
 E ! HOSE ALLOWANCE GPM-INSIDE 0 MAKE RELIABLE MODEL "6"
 S ! HOSE ALLOWANCE GPM-OUTSIDE 100 SIZE 1/2" K-FACTOR 5.62
 I ! RACK SPRINKLER ALLOWANCE 0 TEMPERATURE RATING 165
 G !
 N !

CALCULATION ! GPM REQUIRED 376.66 PSI REQUIRED 142.98 AT BASE OF RISER
 SUMMARY ! C FACTOR USED: OVERHEAD 120 UNDERGROUND 140

W ! WATER FLOW TEST SEE PUMP TEST ! PUMP DATA ! TANK OR RESERVOIR
 A ! DATE OF TEST RESULTS ON PLAN 1061 ! RATED CAP 500 ! CAP. 0
 T ! TIME OF TEST ! AT PSI 90 ! ELEV. 0
 E ! STATIC (PSI) 0 ! ELEV 0 !
 R ! RESIDUAL (PSI) 0 ! ! WELL
 ! FLOW (GPM) 0 ! ! PROOF FLOW GPM 0
 S ! ELEVATION PUMP DISCHARGE ! !

P ! LOCATION : 6" IN STREET
 L ! SOURCE OF INFORMATION : S.S.I. AND PORTLAND WATER DISTRICT
 Y !

! COMMODITY CLASS LOCATION
 C ! STORAGE HT. AREA AISLE WIDTH
 O ! STORAGE METHOD: SOLID PILED % PALLETIZED % RACK %
 M !
 M ! () SINGLE ROW () CONVEN. PALLET () AUTO. STORAGE () ENCAP.
 ! R ! () DOUBLE ROW () SLAVE PALLET () SOLID SHELVING () NON-ENCAP
 S ! A ! () MULTIPLE ROW () OPEN SHELVING
 T ! C !
 O ! K ! FLUE SPACING: CLEARANCE: STORAGE TO CEILING
 R ! ! LONGITUDINAL TRANSVERSE
 A ! !
 G ! ! HORIZONTAL BARRIERS PROVIDED:
 E ! !

UNITS - DIAMETER (INCH) LENGTH (FOOT) FLOW (GPM) PRESSURE (PSI)

HYDRLC. REF. POINT	QA FLOW QT	"C" DIA. LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	PT PV PN	***** NOTES *****
TYF	22.50	1.049	0E 2.0	1.00	16.03		Q=K*SQR(P) :P= 16.03
		C=120	1T 5.0	5.00	0.00		K= 5.620 V = 8.35
	22.50	0.1618		6.00	0.97		
DROP	22.50				17.00		K 1= 5.460
1-1	22.57	1.049	2E 2.0	13.00	16.13		Q=K*SQR(P) :P= 16.13
		C=120		4.00	0.00		K= 5.620 V = 8.38
	22.57	0.1627		17.00	2.77		
1-2	22.52	1.049		13.00	18.90	18.90	K= 5.460 P= 17.01
		C=120		0.00	0.00	1.89	VELOCITY = 16.73
	45.09	0.5854		13.00	7.61	17.01	
1-3	25.53	1.049		12.50	26.51	26.51	K= 5.460 P= 21.87
		C=120		0.00	0.00	4.64	VELOCITY = 26.20
	70.62	1.3427		12.50	16.73	21.87	
1-4	34.74	1.452	0E 4.0	27.50	43.29	43.29	K= 5.460 P= 40.48
		C=120	1T 8.0	8.00	0.00	2.81	VELOCITY = 20.40
	105.36	0.5778		35.50	20.51	40.48	
1	105.36				63.80		K 2= 13.190
2-1	22.57	1.049	1E 2.0	15.00	16.13		Q=K*SQR(P) :P= 16.13
		C=120		2.00	0.00		K= 5.620 V = 8.38
	22.57	0.1627		17.00	2.77		
2-2	22.52	1.049		14.00	18.90	18.90	K= 5.460 P= 17.01
		C=120		0.00	0.00	1.89	VELOCITY = 16.73
	45.09	0.5854		14.00	8.20	17.01	
2-3	25.85	1.049		12.00	27.10	27.10	K= 5.460 P= 22.42
		C=120		0.00	0.00	4.68	VELOCITY = 26.32
	70.94	1.3540		12.00	16.25	22.42	
2-4	34.76	1.452	0E 4.0	27.00	43.35	43.35	K= 5.460 P= 40.52
		C=120	1T 8.0	8.00	0.00	2.83	VELOCITY = 20.47
	105.70	0.5813		35.00	20.35	40.52	
2	105.70				63.70		K 3= 13.240
ARM	22.50	1.049	1E 2.0	3.00	16.03		Q=K*SQR(P) :P= 16.03
		C=120	1T 5.0	7.00	0.00		K= 5.620 V = 8.35
	22.50	0.1618		10.00	1.62		

HYDRLC. REF. POINT	QA FLOW QT	DIA. "C" LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	PT PV PN	***** NOTES *****
3-2	22.50				17.65		K 4= 5.360
3-1	22.57	1.049 C=120	2E 2.0	17.00 4.00	16.13 0.00		Q=K*SQR(P):P= 16.13 K= 5.620 V = 8.38
	22.57	0.1627		21.00	3.42		
3-2	22.52	1.049 C=120		13.00 0.00	19.55 0.00	19.55	K= 5.360 P= 17.66 VELOCITY = 16.73
	45.09	0.5854		13.00	7.61	17.66	
3-3	25.44	1.049 C=120		14.00 0.00	27.16 0.00	27.16	K= 5.360 P= 22.53 VELOCITY = 26.17
	70.53	1.3395		14.00	18.75	22.53	
3-4	35.82	1.452 C=120	0E 4.0 1T 8.0	26.50 8.00	45.91 0.00	45.91	K= 5.460 P= 43.04 VELOCITY = 20.59
	106.35	0.5879		34.50	20.28	43.04	
3	106.35				66.19		K 5= 13.070
1	108.38	2.635 C=120		10.50 0.00	67.52 0.00		Q=K*SQR(P):P= 67.52 K= 13.190 V = 6.37
	108.38	0.0334		10.50	0.35		
2	108.19	2.635 C=120		6.50 0.00	67.87 0.00	67.87	K= 13.240 P= 66.77 VELOCITY = 12.73
	216.57	0.1203		6.50	0.78	66.77	
3	106.35	2.635 C=120		12.00 0.00	68.65 0.00	68.65	K= 13.070 P= 66.21 VELOCITY = 18.99
	322.92	0.2519		12.00	3.02	66.21	
10	322.92				71.67		K 6= 38.140
10	322.92	2.635 C=120	2E 6.0	10.00 12.00	71.67 0.00		QA= 322.9 PT= 71.67 VELOCITY = 18.99
	322.92	0.2519		22.00	5.54		
11	0.00	3.068 C=120	2E 7.0 4T15.0	35.00 74.00	77.21 0.00		QA= 0.0 PT= 77.21 VELOCITY = 14.00
	322.92	0.1200		109.00	13.09		
12	0.00	4.026 C=120	0E10.0 1T20.0	5.00 24.00	90.30 0.00		QA= 0.0 PT= 90.30 VELOCITY = 8.13
	322.92	0.0319	4.00F.	29.00	0.93		

HYDRLC. REF. POINT	QA FLOW QT	DIA. "C" LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	PT PV PN	***** NOTES *****
B	322.92				91.23		K 7= 33.810
B	322.92	6.065 C=120		12.00 0.00	91.23 0.00		QA= 322.9 PT= 91.23 VELOCITY = 3.58
B	322.92	0.0043		12.00	0.05		
C	0.00	6.065 C=120		12.00 0.00	91.23 0.00		QA= 0.0 PT= 91.23 VELOCITY = 3.58
C	322.92	0.0043		12.00	0.05		
D	0.00	6.065 C=120		12.00 0.00	91.33 0.00		QA= 0.0 PT= 91.33 VELOCITY = 3.58
D	322.92	0.0043		12.00	0.05		
E	0.00	6.065 C=120		12.00 0.00	91.33 0.00		QA= 0.0 PT= 91.33 VELOCITY = 3.58
E	322.92	0.0043		12.00	0.05		
F	0.00	6.065 C=120		12.00 0.00	91.43 0.00		QA= 0.0 PT= 91.43 VELOCITY = 3.58
F	322.92	0.0043		12.00	0.05		
G	0.00	6.065 C=120	4E14.0	24.00 56.00	91.43 0.00		QA= 0.0 PT= 91.43 VELOCITY = 3.58
G	322.92	0.0043		80.00	0.35		
H	0.00	6.065 C=120	4E14.0 1T30.0	26.00 86.00	91.83 0.00		QA= 0.0 PT= 91.83 VELOCITY = 3.58
H	322.92	0.0043		112.00	0.49		
I	0.00	6.065 C=120	2E14.0	29.00 28.00	92.32 0.00		QA= 0.0 PT= 92.32 VELOCITY = 3.58
I	322.92	0.0043		57.00	0.25		
J	0.00	6.065 C=120	1E14.0 1T30.0	17.00 44.00	92.57 0.00		QA= 0.0 PT= 92.57 VELOCITY = 3.58
J	322.92	0.0043		61.00	0.27		
K	0.00	6.065 C=120	1E14.0	5.00 49.00	92.84 0.00		QA= 0.0 PT= 92.84 VELOCITY = 3.58
K	322.92	0.0043	35.00F.	54.00	0.23		
100	0.00	3.065 C=120		0.75 0.00	93.07 0.00		QA= 0.0 PT= 93.07 VELOCITY = 14.03
100	322.92	0.1206		0.75	0.09		
PUMP	100.00	6.065 C=120		0.00 0.00	93.16 49.81		QA= 100.0 PT= 93.16 VELOCITY = 4.69
PUMP	422.92	0.0071		0.00	0.00		PE= FOR HT. OF 115.0

HYDRLC.	QA	DIA.	EQUIV.	PIPE	PT	PT	
REF.	FLOW	"C"	FITTING	FTGS.	FE	FV	***** NOTES *****
POINT	QT	LOSS/F	LENGTHS	TOT.	FF	PN	
	422.92				142.97		K 8= 35.370
HOSE							

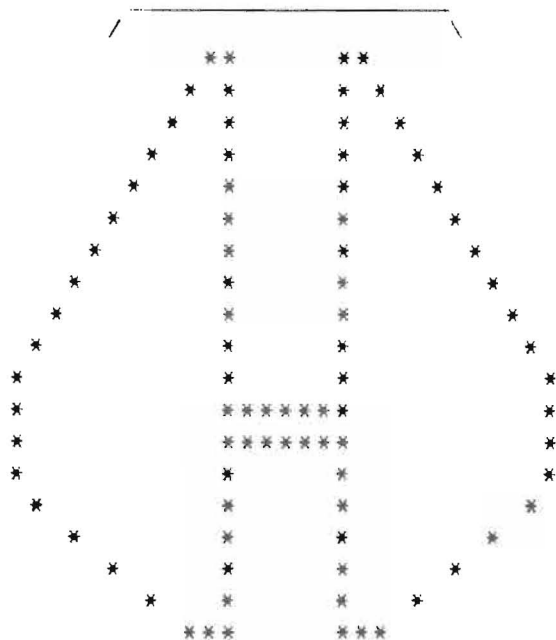
HYDRLC. REF. POINT	QA FLOW QT	"C" DIA. LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	PT PV PN	***** NOTES *****
TYP	22.50	1.049 C=120	OE 2.0 1T 5.0	1.00 5.00 6.00	16.03 0.00 0.97		Q=K*SQR(P);P= 16.03 K= 5.620 V = 8.35
DROP	22.50	0.1618			17.00		K 9= 5.460
4-1	23.21	1.049 C=120	1E 2.0	9.00 2.00 11.00	17.05 0.00 1.89		Q=K*SQR(P);P= 17.05 K= 5.620 V = 8.61
4-2	22.51 45.72	1.049 C=120 0.6007		6.00 0.00 6.00	18.94 0.00 3.60	18.94 1.94 17.00	K= 5.460 P= 17.00 VELOCITY = 16.96
4-3	23.24 68.96	1.049 C=120 1.2849	OE 2.0 1T 5.0	2.50 5.00 7.50	22.54 0.00 9.64	22.54 4.42 18.12	K= 5.460 P= 18.12 VELOCITY = 25.58
4	68.96				32.18		K 10= 12.160
4-4	22.50	1.049 C=120	1E 2.0 1T 5.0	4.50 7.00 11.50	16.03 0.00 1.86		Q=K*SQR(P);P= 16.03 K= 5.620 V = 8.35
4	22.50	0.1618			17.89		K 11= 5.320
ARM	22.50	1.049 C=120	1E 2.0 1T 5.0	2.50 7.00 9.50	16.03 0.00 1.54		Q=K*SQR(P);P= 16.03 K= 5.620 V = 8.35
5-3	22.50	0.1618			17.57		K 12= 5.370
5-1	22.99	1.049 C=120	1E 2.0	11.00 2.00 13.00	16.74 0.00 2.19		Q=K*SQR(P);P= 16.74 K= 5.620 V = 8.53
5-2	22.51 45.50	1.049 C=120 0.5953		6.00 0.00 6.00	18.93 0.00 3.57	18.93 1.93 17.00	K= 5.460 P= 17.00 VELOCITY = 16.88
5-3	22.88 68.38	1.049 C=120 1.2650	OE 2.0 1T 5.0	3.00 5.00 8.00	22.50 0.00 10.12	22.50 4.35 18.15	K= 5.370 P= 18.15 VELOCITY = 25.37

HYDRLC. REF. POINT	QA FLOW QT	DIA. "C" LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	PT PV PN	***** NOTES *****
5	68.38				32.62		K 13= 11.970
ARM	22.50	1.049 C=120	1E 2.0 2T 5.0	5.00 12.00	16.03 0.00		Q=K*SQR(P);P= 16.03 K= 5.620 V = 8.35
	22.50	0.1618		17.00	2.73		
6-3	22.50				18.78		K 14= 5.190
6-1	23.35	1.049 C=120	1E 2.0	11.00 2.00	17.26 0.00		Q=K*SQR(P);P= 17.26 K= 5.620 V = 8.66
	23.35	0.1733		13.00	2.25		
6-2	22.85	1.049 C=120		6.00 0.00	19.51 0.00	19.51	K= 5.460 P= 17.52 VELOCITY = 17.14
	46.20	0.6124		6.00	3.67	17.52	
6-3	22.50	1.049 C=120	0E 2.0 1T 5.0	3.00 5.00	23.18 0.00	23.18	K= 5.190 P= 18.79 VELOCITY = 25.49
	68.70	1.2759		8.00	10.21	18.79	
6	68.70				33.39		K 15= 11.890
ARM	22.50	1.049 C=120	1E 2.0 1T 5.0	3.00 7.00	16.03 0.00		Q=K*SQR(P);P= 16.03 K= 5.620 V = 8.35
	22.50	0.1618		10.00	1.62		
7-2	22.50				17.65		K 16= 5.360
7-1	22.98	1.049 C=120	1E 2.0	15.00 2.00	16.72 0.00		Q=K*SQR(P);P= 16.72 K= 5.620 V = 8.53
	22.98	0.1682		17.00	2.86		
7-2	22.52	1.049 C=120	0E 2.0 1T 5.0	3.00 5.00	19.58 0.00	19.58	K= 5.360 P= 17.65 VELOCITY = 16.88
	45.50	0.5953		8.00	4.76	17.65	
7	45.50				24.34		K 17= 9.220
8-1	22.50	1.049 C=120	2E 2.0	17.50 4.00	16.03 0.00		Q=K*SQR(P);P= 16.03 K= 5.620 V = 8.35
	22.50	0.1618		21.50	3.48		

HYDRLC. REF. POINT	QA FLOW QT	DIA. "C" LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	PT PV FN	***** NOTES *****
8-2	22.90	1.049	1E 2.0 1T 5.0	5.50 7.00	19.51 0.00	19.51 1.92	K= 5.460 P= 17.50 VELOCITY = 16.84
	45.40	0.5929		12.50	7.41	17.59	
8	45.40				26.92		K 18= 8.750
ARM	22.50	1.049	1E 2.0 1T 5.0	3.00 7.00	16.03 0.00		Q=K*SQR(P) :P= 16.03 K= 5.620 V = 8.35
	22.50	0.1618		10.00	1.62		
9-1	22.50				17.65		K 19= 5.360
4	101.16	2.635		10.50 0.00	33.49 0.00		Q=K*SQR(P) :P= 33.49 K= 17.480 V = 5.95
	101.16	0.0294		10.50	0.31		
5	68.89	2.635		12.00 0.00	33.80 0.00	33.80 0.68	K= 11.970 P= 33.12 VELOCITY = 10.00
	170.05	0.0769		12.00	0.92	33.12	
6	68.71	2.635		8.00 0.00	34.72 0.00	34.72 1.33	K= 11.890 P= 33.39 VELOCITY = 14.04
	238.76	0.1441		8.00	1.15	33.39	
7	53.66	2.635		5.00 0.00	35.87 0.00	35.87 2.00	K= 9.220 P= 33.87 VELOCITY = 17.19
	292.42	0.2096		5.00	1.05	33.87	
8	51.14	2.635	1E 6.0 1T12.0	10.00 6.00	36.92 0.00	36.92 2.76	K= 8.750 P= 34.16 VELOCITY = 20.20
	343.56	0.2825		16.00	4.52	34.16	
9-1	33.10	2.635	0E 6.0 1T12.0 12.00F.	45.50 24.00 69.50	41.44 0.00 23.28	41.44 3.31 38.13	K= 5.360 P= 38.13 VELOCITY = 22.15
	376.66	0.3349					
10	376.66				64.72		K 20= 46.820
10	376.66	2.635	2E 6.0	10.00 12.00	64.72 0.00		QA= 376.6 PT= 64.72 VELOCITY = 22.15
	376.66	0.3349		22.00	7.37		
11	0.00	3.068	2E 7.0 4T15.0	35.00 74.00	72.09 0.00		QA= 0.0 PT= 72.09 VELOCITY = 16.33
	376.66	0.1596		109.00	17.40		

HYDRLC. REF. POINT	QA FLOW QT	DIA. "C" LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	PT PV PN	***** NOTES *****
12	0.00 376.66	4.026 C=120 0.0425	0E10.0 1T20.0 4.00F.	5.00 24.00 29.00	89.49 0.00 1.23		QA= 0.0 PT= 89.49 VELOCITY = 9.48
B	376.66				90.72		K 21= 39.550
B	376.66 376.66	6.065 C=120 0.0057		12.00 0.00 12.00	90.72 0.00 0.07		QA= 376.6 PT= 90.72 VELOCITY = 4.18
C	0.00 376.66	6.065 C=120 0.0057		12.00 0.00 12.00	90.79 0.00 0.07		QA= 0.0 PT= 90.79 VELOCITY = 4.18
D	0.00 376.66	6.065 C=120 0.0057		12.00 0.00 12.00	90.86 0.00 0.07		QA= 0.0 PT= 90.86 VELOCITY = 4.18
E	0.00 376.66	6.065 C=120 0.0057		12.00 0.00 12.00	90.93 0.00 0.07		QA= 0.0 PT= 90.93 VELOCITY = 4.18
F	0.00 376.66	6.065 C=120 0.0057		12.00 0.00 12.00	91.00 0.00 0.07		QA= 0.0 PT= 91.00 VELOCITY = 4.18
G	0.00 376.66	6.065 C=120 0.0057	4E14.0 1T30.0	24.00 56.00 80.00	91.07 0.00 0.46		QA= 0.0 PT= 91.07 VELOCITY = 4.18
H	0.00 376.66	6.065 C=120 0.0057	4E14.0 1T30.0	26.00 86.00 112.00	91.53 0.00 0.65		QA= 0.0 PT= 91.53 VELOCITY = 4.18
I	0.00 376.66	6.065 C=120 0.0057	2E14.0	29.00 28.00 57.00	92.18 0.00 0.33		QA= 0.0 PT= 92.18 VELOCITY = 4.18
J	0.00 376.66	6.065 C=120 0.0057	1E14.0 1T30.0	17.00 44.00 61.00	92.51 0.00 0.35		QA= 0.0 PT= 92.51 VELOCITY = 4.18
K	0.00 376.66	6.065 C=120 0.0057	1E14.0 35.00F.	5.00 49.00 54.00	92.86 0.00 0.31		QA= 0.0 PT= 92.86 VELOCITY = 4.18
100	0.00 376.66	3.065 C=120 0.1604		0.75 0.00 0.75	93.17 0.00 0.12		QA= 0.0 PT= 93.17 VELOCITY = 16.37

HYDRLC. REF. POINT	QA FLOW QT	DIA. "C" LOSS/F	EQUIV. FITTING LENGTHS	PIPE FTGS. TOT.	PT PE PF	PT FV FN	***** NOTES *****
PUMP	100.00	6.065		0.00	93.29		QA= 100.0 PT= 93.29
		C=120		0.00	49.81		VELOCITY = 5.29
	476.66	0.0089		0.00	0.00		PE= FOR HT. OF 115.0
HOSE	476.66				143.10		K 22= 39.850



[/////]
[/////]

...FIRE PROTECTION BY COMPUTER DESIGN

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*****
*           SPRINKLER SYSTEMS INC.           *
*           LEWISTON, ME 04240              *
*           207-782-0104                    *
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* CONTRACTOR           SPRINKLER SYSTEMS INC.           *
* NAME                 511 CONGRESS ST. STANDPIPE       *
* LOCATION             511 CONGRESS STREET, PORTLAND, MAINE *
* SYSTEM NO.          EX.STPIPE                        *
* CONTRACT NO.        95044                            *
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SPRINKLER SYSTEMS INC.

P.O. BOX 1285 - LEWISTON, MAINE 04243-1285

memo

LETTER

(207) 782-0104

Date 10/4/95

Subject 511 Congress st
8th & 9th floors

To City of Portland
Code enforcement

— TRANSMITTAL —

- 2 - 1 of 1 Shop Drawings
- 2 - Sets of 8th floor CALCS
- 2 - Sets of 9th floor CALCS
- 2 - Sets of standpipe CALCS
- 1 - Check for \$70⁰⁰

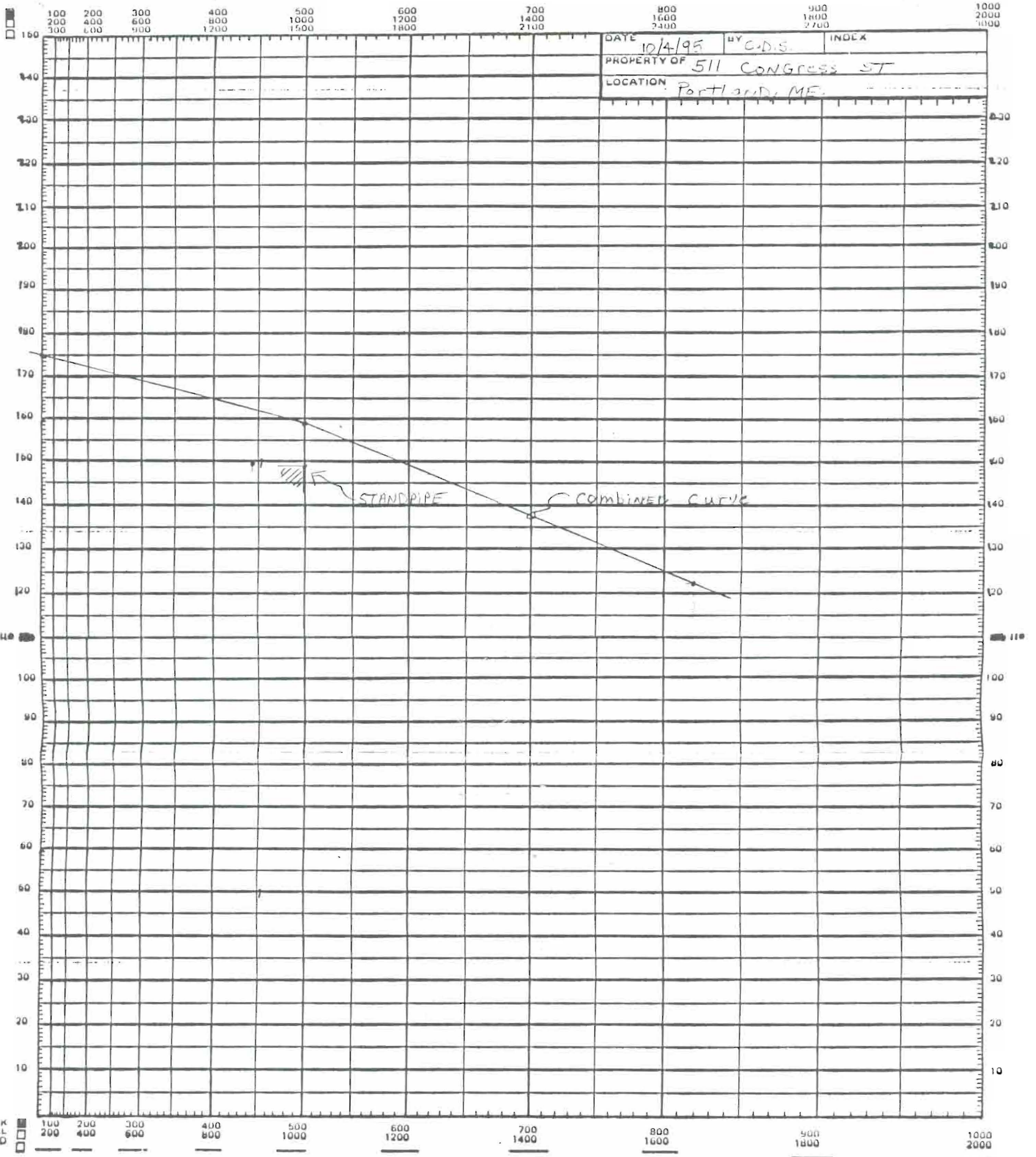
* Permit

Please reply No reply necessary

SIGNED

Wayton Saucier
Wayton Saucier

WATER SUPPLY GRAPH NO. N^{1.85}

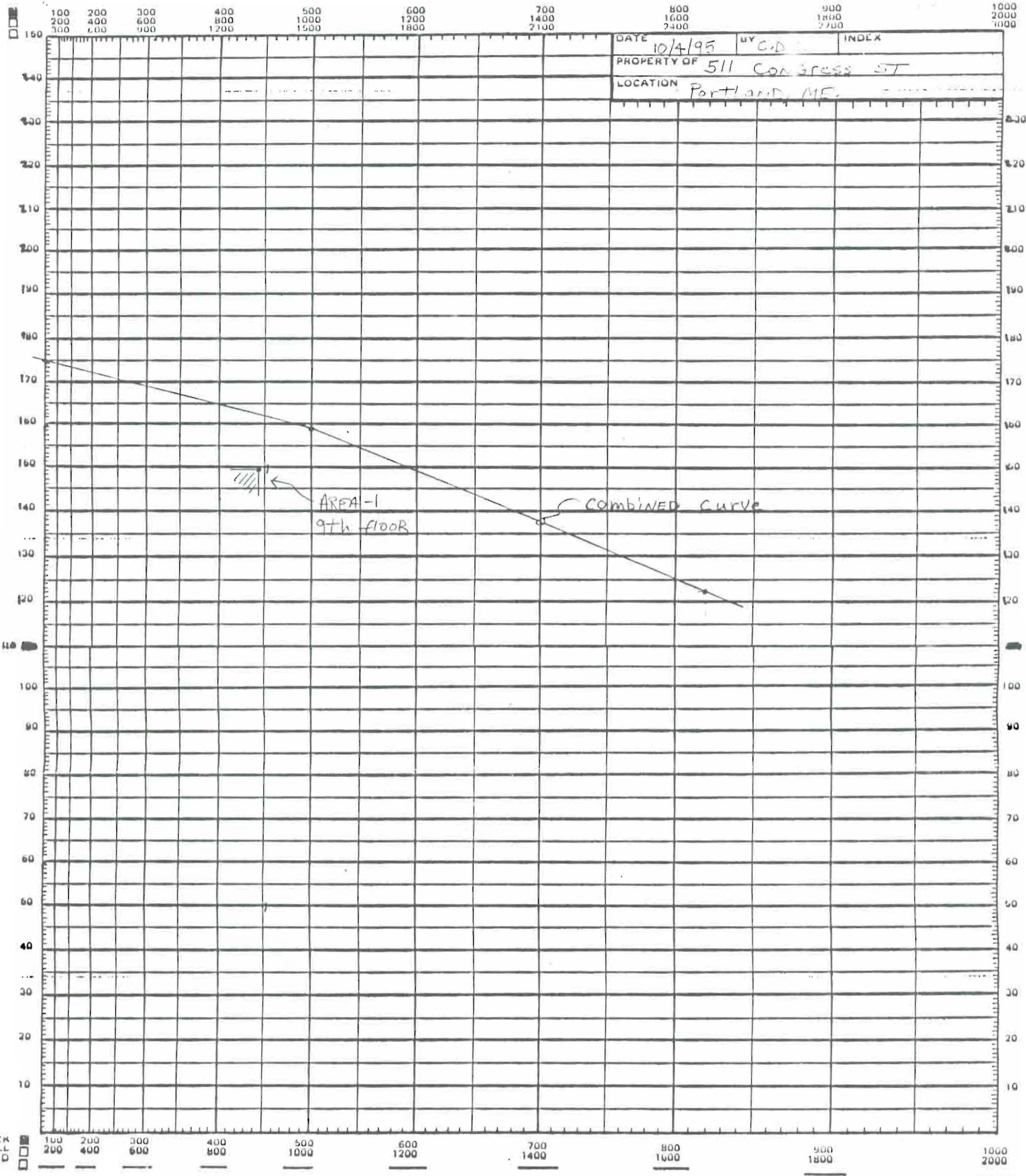


DATE 10/4/95 BY C.D.S. INDEX
 PROPERTY OF 511 Congress ST
 LOCATION Portland, ME.





WATER SUPPLY GRAPH NO. N^{1.85}

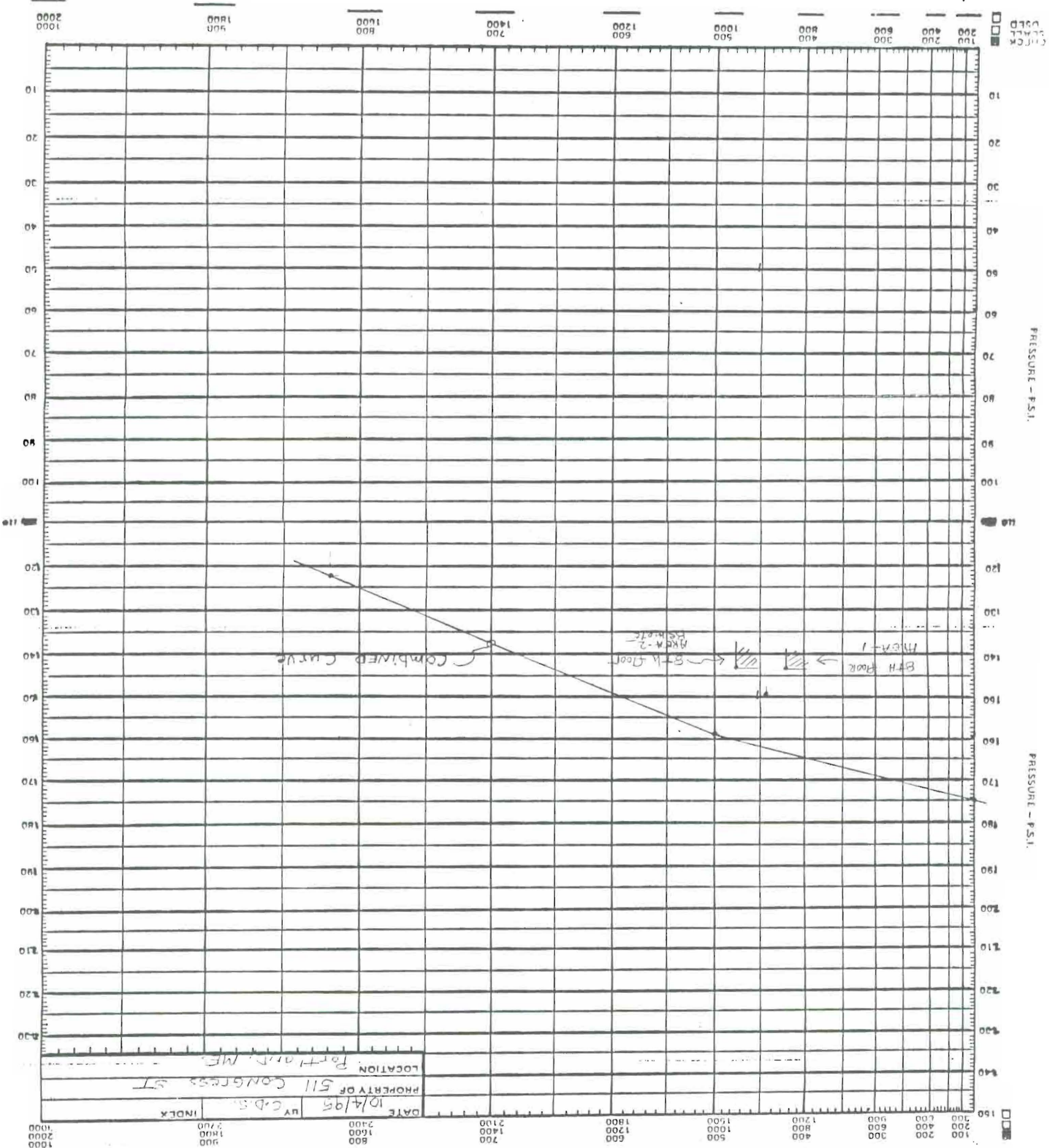


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