DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING PERMIT

This is to certify that
DEAN & ALLYN, INC.
PO BOX 709 - 116 LEWISTON RD
GRAY, ME 04039

For installation at
22 BRAMHALL ST
MAINE MEDICAL CENTER
PAVILION A
5TH FLOOR

Job ID: 2012-08-4605-FAFS

CBL: 053- D-007-001

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

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.	A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

BJ Arnold Jr. (58)

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

Final Fire

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.

PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life • *www.portlandmaine.gov*

Director of Planning and Urban Development
Jeff Levine

Job ID: 2012-08-4605-FAFS
renovate sprinkler system

For installation at:
22 BRAMHALL ST
MAINE MEDICAL CENTER
PAVILION A
5TH FLOOR

CBL: 053- D-007-001

Conditions of Approval:

Fire

Installation shall be in accordance with NFPA 13. A signed compliance letter will be required.

A separate sprinkler permit is required from the State Fire Marshal's Office.

Sprinkler supervision shall be provided in accordance with NFPA 101, *Life Safety Code*, and NFPA 72, *National Fire Alarm and Signaling Code*.

Sprinkler protection shall be maintained. Where the system is to be shut down for maintenance or repair, the system shall be checked at the end of each day to insure the system has been placed back in service.

The Fire Department will require Knox locking caps on all Fire Department Connections on the exterior of the building.

System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.

City of Portland, Maine - Building or Use Permit Application

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

Job No:	Date Applied:	CBL:	
2012-08-4605-FAFS	**8/2/2012**	**053- D-007-001**	
Location of Construction: **22 BRAMHALL ST – pavillion A – 5th floor**	Owner Name: **MAINE MEDICAL CENTER**	Owner Address: **22 BRAMHALL ST PORTLAND, ME 04102**	Phone:
Business Name:	Contractor Name: **DEAN & ALLYN**	Contractor Address: **P.O. BOX 709 GRAY MAINE 04039**	Phone: **(207) 657-5646**
Lessee/Buyer's Name:	Phone:	Permit Type: **FIRE SUPPRESSION SYSTEM**	Zone: **C-41**
Past Use: **Hospital – ME MED**	Proposed Use: **Same: Hospital – to install a fire suppression system in Pavilion A 5th floor**	Cost of Work: **$8,000.00**	CEO District:
		Fire Dept: 8/8/12 ✓ Approved w/ conditions ___ Denied ___ N/A Signature: BJ Ewald Jr (58)	Inspection: Use Group: Type: Signature:
Proposed Project Description: **FS on Pavillion A 5th Floor**		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Brad			

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 electrial work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
___ Shoreland	___ Variance	✓ Not in Dist or Landmark
___ Wetlands	___ Miscellaneous	___ Does not Require Review
___ Flood Zone	___ Conditional Use	___ Requires Review
___ Subdivision	___ Interpretation	___ Approved
___ Site Plan	___ Approved	___ Approved w/Conditions
___ Maj ___ Min ___ MM	___ Denied	___ Denied
Date: OK 8/3/12	Date:	Date:

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 appication is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT ADDRESS DATE PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE DATE PHONE

C-41 extend 8/2/12

Water-Based Fire Suppression System Permit

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

B 2012-08-4605 - FAFS

Installation address: 22 Bramhall St CBL: 053 D007

Exact location: (within structure) Pavillion A 5th FL

Type of occupancy(s) (NFPA & ICC): Hospital

Building owner: ME Health / ME Medical

Managing Supervisor (RMS): Dana Stewart License No: 262

Supervisor phone: 207.657.5646 E-mail: DNarvaez@DeanandAllyn.com

Installing contractor: Dean & Allyn License No:

Contractor phone: 657.5646 E-mail: DNarvaez@DeanandAllyn.com

The suppression work to be done will be: New: ◯ Renovation: ☒ Addition to existing system: ◯

This is an amendment to an existing permit: Yes: ◯ NO ☒ Permit no:

NFPA Standard this system is designed to: 13 Edition:

RECEIVED
AUG 02 2012
Dept. of Building Inspections
City of Portland Maine

*Non-NFPA systems are not approved for use within the City of Portland.

Download a new copy of this document from www.portlandmaine.gov/fire for every submittal. Attach all working documents and complete approved submittals as may be required by the State Fire Marshal's Office on electronic PDF's in addition to full sized plans.

Contractor shall verify location and type of all FDCs shall be approved in writing by the Fire Prevention Bureau.

COST OF WORK: ~~$8000~~ $7,326

PERMIT FEE: 100

($10 PER $1,000 + $30 FOR THE FIRST $1,000)

Submit all information to the Building Inspections Department, 389 Congress Street, Room 315, Portland, Maine 04101.

Prior to acceptance of any fire protection system, a complete commissioning and acceptance test must be coordinated with all fire system contractors and the Fire Department, and proper documentation of such test(s) provided.

All installation(s) must comply with NFPA and the Fire Department Technical Standard(s).

Applicant signature: Date: 8/1/12

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Receipts Details:

Tender Information: Check , Check Number: 13082
Tender Amount: 100.00

Receipt Header:

Cashier Id: bsaucier
Receipt Date: 8/2/2012
Receipt Number: 46630

Receipt Details:

Referance ID:	7482	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	100.00	Charge Amount:	100.00
Job ID: Job ID: 2012-08-4605-FAFS - FS on Pavillion A 5th Floor			
Additional Comments: 22 Bramhall			

Thank You for your Payment!

. . . Fire Protection by Computer Design

DEAN & ALLYN, INC.
PO BOX 709
116 LEWISTON ROAD
GRAY, MAINE 04039
207-657-5646

Job Name	:	MMC LIBRARY
Drawing	:	1 OF 1
Location	:	PORTLAND, MAINE
Remote Area	:	WX1
Contract	:	C121091
Data File	:	C1091 MMC LIBRARY.WX1

Computer Programs by Hydratec Inc. Route 111 Windham N.H. USA 03087

HYDRAULIC CALCULATIONS
for

Project name: MMC LIBRARY
Location: PORTLAND, MAINE
Drawing no: 1 OF 1
Date: 08/01/2012

Design

Remote area number: WX1
Remote area location: 5TH FLOOR-PAVILLION C
Occupancy classification: LIGHT HAZARD
Density: .1 - Gpm/SqFt
Area of application: 1500 - SqFt
Coverage per sprinkler: 148 - SqFt
Type of sprinklers calculated: K=5.6
No. of sprinklers calculated: 17
In-rack demand: 0 - GPM
Hose streams: 100 - GPM
Total water required (including hose streams): 425.375 - GPM @ 100.981 - Psi
Type of system: WET
Volume of dry or preaction system: N/A - Gal

Water supply information

Date:
Location: RICHARDS WING FIRE PUMP
Source:

Name of contractor: DEAN & ALLYN, INC.
Address: PO BOX 709 / 116 LEWISTON ROAD / GRAY, MAINE 04039
Phone number: 207-657-5646
Name of designer: T CLARKE
Authority having jurisdiction: MSFMO
Notes: (Include peaking information or gridded systems here.) WATER SUPPLY INFO IS BASED ON THE FIRE PUMP RATING ONLY, WITH NO CITY SUPPLY ADDED. STATIC PRESSURE FROM CITY SUPPLY IS 65 PSI.

Fitting Legend

Abbrev.	Name	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
B	NFPA 13 Butterfly Valve	0	0	0	0	0	6	7	10	0	12	9	10	12	19	21	0	0	0	0	0
E	NFPA 13 90' Standard Elbow	1	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61
S	NFPA 13 Swing Check	0	0	5	7	9	11	14	16	19	22	27	32	45	55	65					
T	NFPA 13 90' Flow thru Tee	3	4	5	6	8	10	12	15	17	20	25	30	35	50	60	71	81	91	101	121

Units Summary

Diameter Units	Inches
Length Units	Feet
Flow Units	US Gallons per Minute
Pressure Units	Pounds per Square Inch

Note: Fitting Legend provides equivalent pipe lengths for fittings types of various diameters. Equivalent lengths shown are standard for actual diameters of Sched 40 pipe and CFactors of 120 except as noted with *. The fittings marked with a * show equivalent lengths values supplied by manufacturers based on specific pipe diameters and CFactors and they require no adjustment. All values for fittings not marked with a * will be adjusted in the calculation for CFactors of other than 120 and diameters other than Sched 40 per NFPA.

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
501	79.5	5.6	7.0	na	14.82	0.1	148	7.0
502	79.5	5.6	7.39	na	15.22	0.1	148	7.0
503	81.5	5.6	9.84	na	17.57	0.1	148	7.0
504	81.5	5.6	8.07	na	15.91	0.1	148	7.0
505	81.5	5.6	8.08	na	15.92	0.1	148	7.0
506	81.5	5.6	8.48	na	16.3	0.1	148	7.0
507	81.5	5.6	9.05	na	16.85	0.1	148	7.0
508	79.5	5.6	9.85	na	17.58	0.1	148	7.0
509	81.5	5.6	9.86	na	17.58	0.1	148	7.0
510	81.5	5.6	11.65	na	19.11	0.1	148	7.0
511	80.5	5.6	11.86	na	19.29	0.1	148	7.0
512	80.5	5.6	11.47	na	18.97	0.1	148	7.0
513	80.5	5.6	12.21	na	19.57	0.1	148	7.0
514	80.5	5.6	20.16	na	25.15	0.1	148	7.0
515	81.5	5.6	14.9	na	21.62	0.1	148	7.0
516	81.5	5.6	16.18	na	22.53	0.1	148	7.0
517	81.5	5.6	31.46	na	31.41	0.1	148	7.0
521	82.5		6.6	na				
522	82.5		7.49	na				
524	82.5		8.32	na				
525	82.5		8.88	na				
507T	82.5		9.14	na				
528	82.5		10.07	na				
529	82.5		11.3	na				
531T	82.5		12.74	na				
532	82.5		12.1	na				
533	82.5		13.51	na				
536	82.5		16.72	na				
538	82.5		34.0	na				
523	82.0		10.49	na				
526	82.0		12.2	na				
527	82.0		13.2	na				
530	82.0		15.24	na				
531	82.0		15.35	na				
534	82.0		18.14	na				
535	82.0		21.1	na				
537	82.0		22.62	na				
539	82.0		37.24	na				
540	82.0		37.26	na				
541	82.0		48.42	na	100.0			
MR	0.0		96.29	na				
PUMP	0.0		100.98	na				

The maximum velocity is 28.11 and it occurs in the pipe between nodes 537 and 540

Hyd. Ref. Point	Qa / Qt	Dia. "C" / Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	******* Notes ******
501	14.82	1.049	3E	6.0	6.000	7.000		K Factor = 5.60
to		120.0		0.0	6.000	-1.299		
521	14.82	0.0747		0.0	12.000	0.896		Vel = 5.50
	0.0							
	14.82					6.597		K Factor = 5.77
502	15.22	1.049	2E	4.0	8.917	7.386		K Factor = 5.60
to		120.0	1T	5.0	9.000	-1.299		
522	15.22	0.0785		0.0	17.917	1.407		Vel = 5.65
	0.0							
	15.22					7.494		K Factor = 5.56
503	17.57	1.049	3E	6.0	2.500	9.841		K Factor = 5.60
to		120.0		0.0	6.000	-0.217		
523	17.57	0.1024		0.0	8.500	0.870		Vel = 6.52
	0.0							
	17.57					10.494		K Factor = 5.42
504	15.91	1.049	2E	4.0	3.958	8.071		K Factor = 5.60
to		120.0		0.0	4.000	-0.433		
524	15.91	0.0852		0.0	7.958	0.678		Vel = 5.91
	0.0							
	15.91					8.316		K Factor = 5.52
505	15.92	1.049	2E	4.0	5.458	8.081		K Factor = 5.60
to		120.0	1T	5.0	9.000	-0.433		
525	15.92	0.0853		0.0	14.458	1.233		Vel = 5.91
	0.0							
	15.92					8.881		K Factor = 5.34
506	16.30	1.049	1E	2.0	10.333	8.476		K Factor = 5.60
to		120.0		0.0	2.000	-0.433		
507T	16.3	0.0891		0.0	12.333	1.099		Vel = 6.05
	0.0							
	16.30					9.142		K Factor = 5.39
507	16.85	1.049	1T	5.0	0.500	9.054		K Factor = 5.60
to		120.0		0.0	5.000	-0.433		
507T	16.85	0.0947		0.0	5.500	0.521		Vel = 6.26
	0.0							
	16.85					9.142		K Factor = 5.57
508	17.58	1.049	3E	6.0	8.792	9.851		K Factor = 5.60
to		120.0		0.0	6.000	-1.299		
528	17.58	0.1024		0.0	14.792	1.515		Vel = 6.53
	0.0							
	17.58					10.067		K Factor = 5.54
509	17.58	1.049	2E	4.0	9.250	9.859		K Factor = 5.60
to		120.0	1T	5.0	9.000	-0.433		
529	17.58	0.1025		0.0	18.250	1.871		Vel = 6.53

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	******* Notes ******
	0.0							
	17.58					11.297		K Factor = 5.23
510	19.11	1.049	1E	2.0	5.792	11.646		K Factor = 5.60
to		120.0	1T	5.0	7.000	-0.433		
531T	19.11	0.1196		0.0	12.792	1.530		Vel = 7.09
	0.0							
	19.11					12.743		K Factor = 5.35
511	19.29	1.049	2E	4.0	5.375	11.861		K Factor = 5.60
to		120.0	1T	5.0	9.000	-0.866		
531T	19.29	0.1216		0.0	14.375	1.748		Vel = 7.16
	0.0							
	19.29					12.743		K Factor = 5.40
512	18.97	1.049	3E	6.0	6.625	11.474		K Factor = 5.60
to		120.0		0.0	6.000	-0.866		
532	18.97	0.1180		0.0	12.625	1.490		Vel = 7.04
	0.0							
	18.97					12.098		K Factor = 5.45
513	19.57	1.049	2E	4.0	8.375	12.208		K Factor = 5.60
to		120.0	1T	5.0	9.000	-0.866		
533	19.57	0.1250		0.0	17.375	2.172		Vel = 7.26
	0.0							
	19.57					13.514		K Factor = 5.32
514	25.15	1.049	1E	2.0	1.000	20.163		K Factor = 5.60
to		120.0	1T	5.0	7.000	-0.650		
535	25.15	0.1988		0.0	8.000	1.590		Vel = 9.34
	0.0							
	25.15					21.103		K Factor = 5.47
515	21.62	1.049	1E	2.0	13.000	14.901		K Factor = 5.60
to		120.0		0.0	2.000	-0.433		
536	21.62	0.1503		0.0	15.000	2.254		Vel = 8.03
	0.0							
	21.62					16.722		K Factor = 5.29
516	22.53	1.049	1T	5.0	1.000	16.182		K Factor = 5.60
to		120.0		0.0	5.000	-0.433		
536	22.53	0.1622		0.0	6.000	0.973		Vel = 8.36
	0.0							
	22.53					16.722		K Factor = 5.51
517	31.41	1.049	1E	2.0	2.917	31.457		K Factor = 5.60
to		120.0	1T	5.0	7.000	-0.433		
538	31.41	0.2999		0.0	9.917	2.974		Vel = 11.66
	0.0							

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	******* Notes ******
	31.41					33.998		K Factor = 5.39
521	14.82	1.049		0.0	12.000	6.597		
to		120.0		0.0	0.0	0.0		
522	14.82	0.0748		0.0	12.000	0.897		Vel = 5.50
522	15.22	1.049	1E	2.0	3.083	7.494		
to		120.0	1T	5.0	7.000	0.217		
523	30.04	0.2760		0.0	10.083	2.783		Vel = 11.15
	0.0							
	30.04					10.494		K Factor = 9.27
524	15.91	1.049		0.0	6.625	8.316		
to		120.0		0.0	0.0	0.0		
525	15.91	0.0853		0.0	6.625	0.565		Vel = 5.91
525	15.92	1.049	1E	2.0	3.083	8.881		
to		120.0	1T	5.0	7.000	0.217		
526	31.83	0.3073		0.0	10.083	3.099		Vel = 11.82
	0.0							
	31.83					12.197		K Factor = 9.11
507T	33.15	1.049	1T	5.0	6.583	9.142		
to		120.0		0.0	5.000	0.217		
527	33.15	0.3314		0.0	11.583	3.839		Vel = 12.31
	0.0							
	33.15					13.198		K Factor = 9.12
528	17.58	1.049		0.0	12.000	10.067		
to		120.0		0.0	0.0	0.0		
529	17.58	0.1025		0.0	12.000	1.230		Vel = 6.53
529	17.58	1.049	1E	2.0	3.083	11.297		
to		120.0	1T	5.0	7.000	0.217		
530	35.16	0.3694		0.0	10.083	3.725		Vel = 13.05
	0.0							
	35.16					15.239		K Factor = 9.01
531T	38.40	1.049	1T	5.0	0.500	12.743		
to		120.0		0.0	5.000	0.217		
531	38.4	0.4349		0.0	5.500	2.392		Vel = 14.26
	0.0							
	38.40					15.352		K Factor = 9.80
532	18.97	1.049		0.0	12.000	12.098		
to		120.0		0.0	0.0	0.0		
533	18.97	0.1180		0.0	12.000	1.416		Vel = 7.04
533	19.57	1.049	1E	2.0	3.083	13.514		
to		120.0	1T	5.0	7.000	0.217		
534	38.54	0.4378		0.0	10.083	4.414		Vel = 14.31

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	******* Notes ******
	0.0							
	38.54					18.145		K Factor = 9.05
536	44.14	1.049	1E	2.0	3.083	16.722		
to		120.0	1T	5.0	7.000	0.217		
537	44.14	0.5629		0.0	10.083	5.676		Vel = 16.39
	0.0							
	44.14					22.615		K Factor = 9.28
538	31.41	1.049	1E	2.0	3.083	33.998		
to		120.0	1T	5.0	7.000	0.217		
539	31.41	0.2998		0.0	10.083	3.023		Vel = 11.66
	0.0							
	31.41					37.238		K Factor = 5.15
523	47.60	1.38		0.0	10.000	10.494		
to		120.0		0.0	0.0	0.0		
526	47.6	0.1703		0.0	10.000	1.703		Vel = 10.21
526	31.83	1.61		0.0	4.833	12.197		
to		120.0		0.0	0.0	0.0		
527	79.43	0.2071		0.0	4.833	1.001		Vel = 12.52
527	33.15	1.61		0.0	5.167	13.198		
to		120.0		0.0	0.0	0.0		
530	112.58	0.3950		0.0	5.167	2.041		Vel = 17.74
530	35.16	2.067		0.0	0.583	15.239		
to		120.0		0.0	0.0	0.0		
531	147.74	0.1938		0.0	0.583	0.113		Vel = 14.13
531	38.40	2.067		0.0	9.417	15.352		
to		120.0		0.0	0.0	0.0		
534	186.14	0.2966		0.0	9.417	2.793		Vel = 17.80
534	38.54	2.067		0.0	7.042	18.145		
to		120.0		0.0	0.0	0.0		
535	224.68	0.4201		0.0	7.042	2.958		Vel = 21.48
535	25.14	2.067		0.0	2.958	21.103		
to		120.0		0.0	0.0	0.0		
537	249.82	0.5112		0.0	2.958	1.512		Vel = 23.89
537	44.15	2.067	1T	10.0	11.208	22.615		
to		120.0		0.0	10.000	0.0		
540	293.97	0.6907		0.0	21.208	14.649		Vel = 28.11
	0.0							
	293.97					37.264		K Factor = 48.16
539	31.41	3.068	1T	15.0	0.708	37.238		
to		120.0		0.0	15.000	0.0		
540	31.41	0.0017		0.0	15.708	0.026		Vel = 1.36

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	******* Notes ******
540	293.96	3.068	1B	10.0	36.625	37.264		
to		120.0	2E	14.0	55.000	0.0		
541	325.37	0.1218	1S	16.0	91.625	11.158		Vel = 14.12
			1T	15.0				
541	100.00	4.026		0.0	232.000	48.422		Qa = 100
to		120.0		0.0	0.0	35.514		
MR	425.37	0.0532		0.0	232.000	12.349		Vel = 10.72
MR	0.0	6.065		0.0	649.000	96.285		
to		120.0		0.0	0.0	0.0		
PUMP	425.37	0.0072		0.0	649.000	4.696		Vel = 4.72
	0.0							
	425.37					100.981		K Factor = 42.33

Pump Data:		Demand:	
P1 - Pump Churn Pressure	: 114.4	D1 - Elevation	: 34.431
P2 - Pump Rated Pressure	: 104	D2 - System Flow	: 325.375
P2 - Pump Rated Flow	: 500	D2 - System Pressure	: 100.981
P3 - Pump Pressure @ Max Flow	: 67.6	Hose (Demand)	: 100
P3 - Pump Max Flow	: 750	D3 - System Demand	: 425.375
		Safety Margin	: 6.735