

CONSTRUCTION PERMIT APPLICATION

3. Change in Use Group.

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)1.vii:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION

(to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:32-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☐ Check if contractor.

Agent Name FEDERAL Realty Investment Trust

Address 4800 Hampden Lane Suite 500
Bethesda Md. 20814

Telephone (301) 652 5360

Signature Sam Balch Date 5/17/95

OFFICE DATE RECEIVED: _____

VIII. PRIOR APPROVALS CHECKLIST (office use only)	LOCAL APPROVAL		COUNTY APPROVAL		REGIONAL APPROVAL		STATE APPROVAL		COMMENTS
	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	
☐ Zoning Officer									
☐ Planning Board									
☐ Zoning Board									
☐ Sewer Authority									
☐ Water Authority									
☐ Fire Department									
☐ Police Department									
☐ Health Department									
☐ Soil Conservation									
☐ N.J. Dept. of Community Affairs									
☐ N.J. Department of Transportation									
☐ N.J. Dept. of Environmental Protect.									
☐ Utility Dig No.									
☐									
☐									

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only--optional)

Name of Code & Edition		Name of Code & Edition	
Building _____	Energy _____	Barrier Free _____	Other _____
Electrical _____		Flood Hazard _____	
Plumbing _____		As Built Elevation Cert. _____	
Fire Protection _____			
Mechanical _____			

X. CERTIFICATES ISSUED (office use only)

	DATE ISSUED	DATE EXPIRED	DATE REISSUED	DATE EXPIRED
☐ Temporary Certificate of Occupancy	No. _____	_____	_____	_____
☐ Temporary Certificate of Compliance	No. _____	_____	_____	_____
☐ Continued Certificate of Occupancy	No. _____	_____	_____	_____
☐ Certificate of Compliance	No. _____	_____	_____	_____
☐ Certificate of Occupancy	No. _____	_____	_____	_____
☐ Certificate of Approval	No. _____	_____	_____	_____



CONSTRUCTION PERMIT

Date Issued
Control #
Permit #

5/22/95
1242-95

IDENTIFICATION Block 671 Lot 8
Work Site Location 100 Chambers St. 1st Contractor Don Miller & Son
Owner in Fee Brick Plaza, Inc. Address 372 Avenue H
Address _____
Tele. (____) _____
Lic. No. or Bids. Reg. No. _____ Exp. Date _____
Federal Emp. No. _____
or Social Security No. _____

is hereby granted permission to perform the following work:

☒ BUILDING ☐ PLUMBING ☐ OTHER _____
☐ ELECTRICAL ☐ FIRE PROTECTION

DESCRIPTION OF WORK:

Exterior alt to
Shopping Center

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$ 1,650,000

CONSTRUCTION OFFICIAL

U.C.C. Form F-170A

PAYMENTS (Office Use Only)

Building 32990

Plumbing _____

Electrical _____

Fire Protection _____

Other 11K 3299

Other _____

DCA Training Fee 1320

Cert. of Occ. 20

Other _____

Total 37629

Check No. # 32503

Cash _____

Collected By: [Signature]



**BUILDING
SUBCODE
TECHNICAL SECTION**



Date Received
Date Issued
Control #
Permit #

5/22/95
1242-95

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING

CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 671 Lot 8
Work Site Location 100 Chondalwood Ave

Owner in Fee Federal Realty Trust Inc.
Address 4800 Hampton Lane, Suite 500
Bedford Hills, NY 10514

Tele. (914) 301 961 9219

Contractor Gray & White Builders

Address 100 Chondalwood Ave

Tele. ()
Lic. No. or Bldgs. Reg. No. or Social Security No.

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Failure	Failure	Approval	Initial
☐ No Plans Req.			Type:				
☐ All	5/17	RT	Footings				
☐ Footing			Foundation				
☐ Foundation			Slab				
☐ Frame			Frame				
☐ Other			Insulation				
Joint Plan Review Required:				Finishes:			
☐ Elec. ☐ Plumb. ☐ Fire				Energy			
SUBCODE APPROVAL				Mechanical			
☐ CO ☐ CCO ☐ CA				TCO			
Date:				Other			
Approved By:				Final			

B. BUILDING CHARACTERISTICS

Use Group	Present	Proposed	Est. Cost of Bldg. Work:
Constr. Class			1. New Bldg. \$
No. of Stories			2. Alteration \$
Height of Structure			3. Total (1+2) \$
Area—Largest Floor			Sq. Ft.
New Bldg. Area/All Floors			Sq. Ft.
Volume of New Structure			Cu. Ft.
Total Land Area Disturbed			Sq. Ft.

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Signature

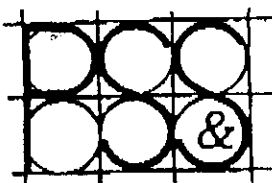
D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

Comm. Alter to Exterior Stages
Landscape only.

TYPE OF WORK:	(Office Use Only) FEE
☐ New Building	
☐ Addition	
☐ Alteration	
☐ Roofing	
☐ Siding	
☐ Fence	Height (6' or over) Sq. Ft.
☐ Sign	
☐ Pool	
☐ Asbestos Abatement	
☐ Other	
☐ Other	
☐ Demolition	

Administrative Surcharge	Minimum Fee	DCA TRAINING FEE	TOTAL FEE
Paid ☐ Check #			
Collected by:			



**PAULUS
SOKOLOWSKI
and SARTOR, INC.**
CONSULTING ENGINEERS

67A MOUNTAIN BOULEVARD EXTENSION
P.O. BOX 4039 • WARREN, NEW JERSEY 07059-0039
(908) 560-9700 • FAX (908) 560-9768

PRINCIPALS

William Paulus, Jr., P.E.
Anthony J. Sartor, Ph.D., P.E., PP.
O. von Bradsky, P.E.
Philip A. Falcone, P.E.

David R. Antes, P.E.
Michael P. Cohen, P.E.
George T. Currier, P.E.
Michael M. Gennaro, P.E.
Marilyn Lennon, P.P., AICP
Joseph J. Lefrier, P.E., P.G., PP
James R. Mehltrafer, P.E.
Carroll J. Oliva, P.E., R.A.
Emad Youssef, P.E.

*Left
Plot for
Ray*

August 9, 1995
1799-0003-01

Mr. Gary Klacik
Federal Realty Investment Trust
4800 Hampden Lane
Bethesda, Maryland 20814

Reference: Former A&P Building
Brick Plaza Shopping Center
Brick, New Jersey
Existing Truss Repairs

Dear Mr. Klacik:

In 1994, Paulus, Sokolowski and Sartor was requested by Federal Realty Investment Trust to observe the repairs to truss members which were designed and installed by KAS Engineering (engineer) and Dajon Associates (builder), respectively. We have reviewed the repairs deemed necessary by the design/builder and found them to be installed in accordance with their direction. These repairs brought the trusses up to the level of their original design strength and to the code requirements at the time the building was constructed (approximately 1958). However, since then, there have been advances in structural engineering practice and changes in the code requirements. Therefore, the trusses do not meet current code requirements.

A review of the stresses in the truss members confirms that an overstress condition exists in the bottom chord members of all the trusses, predominantly due to snow live loads.

SENIOR ASSOCIATES

Michael A. Belikoff, P.E.
William J. Berk, P.G.
John T. Bolan, P.E.
Joseph J. Fleming, P.E.
Bruce T. Hawkins, C.L.A.
Todd R. Heacock, P.E.
P. Steve Oliver
Eric Simone, P.E.
David W. Smith
Mark C. von Bradsky, P.E.
Clifford Wilkinson, P.E.

ASSOCIATES

Mark K. Addison, P.E.
Michael J. Barboza, P.E.
Joseph P. Barry, P.E.
Elpidio C. Carbonell, P.E.
David J. Charette
Mayur B. Desai, P.E.
Jon D. Engle, P.E.
B. Lynn Garcia
Gedfrey R. Lanza, P.E.
Mark Lennon
Elizabeth S. McLoughlin, P.P., AICP
Frank J. Mescall, P.E.
René J. Schneider, P.E.
Janos Szeman
James R. Wancho, P.E.
Francis Wechi, L.S.
Donald L. Whitehead
Thomas C. Zeikulic, P.P., AICP

Mr. Gary Klacik
Federal Realty Investment Trust
August 9, 1995
Page 2

In order to relieve this overstressed condition, new columns can be installed at strategic locations (close to mid-span at panel point locations). This will effectively reduce the span of the existing trusses and, thereby, eliminate the computed overstress.

PS&S recommended to Federal Realty, and Federal Realty concurred, that the addition of these columns be implemented immediately. PS&S has begun work on the new column design. We recommend that the existing shores be left in place under Truss #1 (at the rear of the building) until the new columns are in place.

Because the computed overstress is predominately the result of snow live loads, it is our opinion the trusses are safe in their current condition until the winter season begins. Therefore, provided the new columns are in place prior to the winter season, the trusses, in our opinion, are capable of supporting existing loads in addition to the anticipated tenant mechanical ductwork, electrical work, and ceiling loads currently proposed for this space.

If you have any questions concerning the aforementioned items, please contact us.

Very truly yours,

PAULUS, SOKOLOWSKI and SARTOR, Inc.



Kenneth P. Volpe, P.E.
Project Manager

Members

Gary Casper, Chairman
Walter F. Rehak, Vice Chairman
Robert Singer, Secretary-Treasurer
Leon Dwulet, M.D.
Barbara Hiering
Robert S. Laureigh
John J. Mallon
Patricia Seeber
Warren Wolf
James F. Lacey, Freeholder Liaison
Seymour J. Kagan, Counsel



OCEAN COUNTY HEALTH DEPARTMENT

P.O. Box 2191
Toms River, N.J. 08754-2191
908-341-9700

Herbert W. Roeschke
Public Health Coordinator

Township of Brick
401 Chambersbridge Road
Brick, New Jersey 08723

August 15, 1995

*OK per
off.*

Re: Proposed Floor Plan
Block 671 Lot 2,4,8,11,12
A&P
CHAMBERSBRIDGE ROAD
BRICK, NJ 08723

Dear Sir:

I have reviewed the floor plans for the above-referenced proposed food establishments and have found them to be in substantial compliance with Chapter XII, the New Jersey State Retail Food Code.

If you should have any questions, please feel free to contact me at this office.

Very truly yours,
Stephen Klaniecki
Stephen Klaniecki
Sanitary Inspector

SK:gl
cc: Brick Township Board of Health
Brick Township Construction Official (Arthur Cierzo)



OCEAN COUNTY HEALTH DEPARTMENT

No: _____

SANITARY INSPECTION REPORT

ESTABLISHMENT INFORMATION

PHONE # TEMP. 920-1800		ESTABLISHMENT CODE 27	GOODS ☐ DESTROYED ☐ EMBARGOED
ESTABLISHMENT TRADING NAME A & P		EVALUATION ☒ SATISFACTORY ☐ CONDITIONALLY SATISFACTORY ☐ UNSATISFACTORY	
NUMBER AND STREET CHAMBERS BRIDGE RD + BRICK BLVD		WATER SUPPLY ☒ Public - Community ☐ Individual (Public - Non-Community)	
CITY OR MUNICIPALITY Brick	ZIP CODE 08723		
ESTABLISHMENT LICENSE NO. TO BE OBTAINED	COMMUN. CODE 1500	RISK I	

OWNER INFORMATION

(Complete this section only if different from establishment information)

NAME OF OWNER(S), CORPORATION OR REGISTERED AGENT Mico Contr. Co.		TIME (2400 HOURS)	
NUMBER AND STREET 270 Drum Pt. Road		DATE 8/15/95	BEGIN 0845
CITY OR MUNICIPALITY Brick		END 0940	
STATE N.J.			
ZIP CODE 08723	COMMUN. CODE 1500	COMPLAINT NO.	COMPLAINT REC.
		COMPLAINT INSPECTED	

INSPECTION TYPE ☐ COMPLAINT ☐ INITIAL INSPECTION ☐ REINSPECTION ☒ PLAN REVIEW ☐ CONFERENCE	TYPE OF ESTABLISHMENT ☒ RETAIL ☐ WHOLESALE ☐ VENDING MACHINE NO. OF MACHINES ☐ FROZEN DESSERTS ☐ OTHER	Herbert W. Roeschke Health Officer Sunset Avenue P.O. Box 2191 Toms River, N.J. 08754-2191 Telephone No. 908-341-9700
		NAME OF INSPECTING OFFICIAL (Print) Stephen Klauzinski
		SIGNATURE OF INSPECTING OFFICIAL Stephen Klauzinski
		PERMANENT REG. NO. B-1463

OCEAN COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES

[illegible]

H.D.67

Page

of

Pages

TOWNSHIP OF BRICK

ZONING PERMIT

Date of Issue: Jan. 10, 1995 1995 Z 0022
Block 671 Lot 8 Zone B-3, H.D.
Property Address: Chambers Bridge Road, Brick Plaza
Owner: Federal Realty Investment (Phone): _____
Applicant: A&P Company, Joseph South (Phone): 201-930-4553
Use: Former Jamesway, B&B, and other stores.
Proposed Construction (if any): Remodel for A&P Food Store.

Conditions: _____

Please note that Building Permits, as well as Zoning Permits, must be obtained prior to any construction.

This permit shall be null, void and of no effect if any of the facts contained in the application upon the basis of which this permit was granted are false or untrue in any material respect. This permit shall expire one (1) year after the date of issuance if the use or substantial construction has not been commenced.

Sean Kinney

Land Use Officer



THE IVES GROUP
ARCHITECTS/PLANNERS

14-25 PLAZA ROAD
FAIR LAWN, NEW JERSEY 07410
(201) 791-7444

Fax: # (201) 794-3150

Joel Ives, AIA, Partner
Allen Weitzman, AIA, Partner
C. Joseph Smith, AIA, Associate

July 7, 1995

Mr. Arthur Cierzo
Construction Official
Township of Brick
401 Chambers Bridge Road
Brick, New Jersey 08723

RECEIVED

JUL 10 1995

DIV. OF INSPECTION

Re: A&P Food Store
Brick Plaza Shopping Center

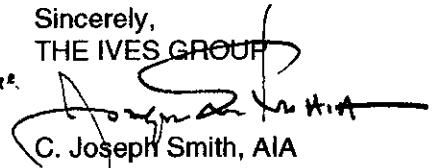
Dear Mr. Cierzo:

Enclosed please find three signed and sealed copies of Drawing A-5 - ROOF PLAN/DETAILS, CANOPY PLAN for the A&P Store. When the contractor began demolition work in the building, it became apparent that the roof and the metal roof deck had been damaged beyond repair. The contractor was advised to remove all existing roofing and deck and replace it with new materials. Our office specified a replacement metal deck similar to the existing and a new roofing system was installed.

The enclosed drawings depict the new PVC roofing system being installed on the building. The specific system is an HPG SR-60 mechanically fastened PVC roof. We note that the roof was designed to function without pitch. The manufacturer provided us with a letter noting that ponding of water will not effect the watertightness of the roof. In regard to the roof load and a potential loading problem due to ponding, we note that the contractor has removed up to four layers of roofing in certain areas over the store area substantially relieving the dead load imposed on the roof (6-10 psf estimated.) The newly installed roofing system, including the two inch insulation board and roofing material weighs less than 1 psf, much less than the weight of the old built up systems which were removed. To address our structural engineer's concerns and to address the requirements of BOCA Section 1609.5 - Ponding, ten (10) special overflow type 8" roof drains, as well as three overflow scuppers have been called for to prevent excessive ponding. Overflow weirs for these drains shall be set at 1" above the roof deck to limit the accumulation of ponded water on the roof to one inch. (One inch of water represents approximately 5 psf.) The existing roof framing was designed for a load of 30 psf. The lighter roofing system installed leaves ample capacity for possible ponding.

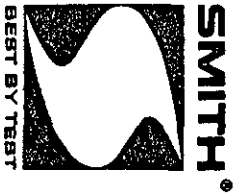
Please let me know if you have any further questions.

Sincerely,
THE IVES GROUP


C. Joseph Smith, AIA
Senior Associate

cc: Marv Post - A&P
Don Miller - Don Miller & Sons
Ray Korkowski - Brick Twp.

3/cjcierzo.707



LARGE SPECIAL PURPOSE ROOF DRAINS

FLOODING DAM TYPE STANDPIPE TYPE WATER COLLAR TYPE

FUNCTION: Used on flat roofs of any construction where a constant height of water is desired on the roof. It is also used on conventional roofs as a safety overflow, which receives water only when the build-up is greater than the setting of the cut standpipe. Standpipe type water dam can be cut to achieve various water depths on the roof.

FUNCTION: Used on flat roofs of any construction where a constant height of water is desired on the roof. It may also be used as an emergency overflow for conventional roofs, draining down rain water when the depth of the water on the roof reaches the water dam height.

VARIATIONS:

REGULARLY FURNISHED:
 Duo Cast Iron Body,
 Flashing Clamp and
 Gravel Stop with
 Polyethylene Dome,
 P.V.C. Standpipe or Cast
 Iron Water Collar as
 indicated by Figure
 Number selected.

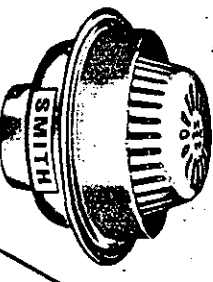
OPTIONAL MATERIALS:
 Extension (Specify Height) (E)
 Secondary Flashing Clamp (C-2)
 Underdeck Clamp (C)
 Sump Receiver (R)
 2 1/2, 3 or 4" Water Dams
 Available (See Fig. 1080)

"L" Shaped Underdeck Clamp
 Speedi-Set Outlet (94) (2, 3 and
 4" sizes only. Specify XH or
 SW)
 Threaded Outlet (T)
 Vandal Proof Dome (U)
 Expansion Joint (See Fig. 1710)

OPTIONAL MATERIALS:
 Galvanized Cast Iron (G)
 Cast Iron Dome
 Rough Bronze Dome
 Bronze Standpipe (Fig. 1070
 only)
 Cast Iron Standpipe (Fig. 1070
 only)
 Aluminum Dome (A)



1070



1080

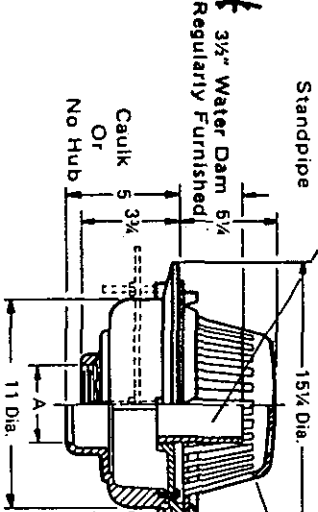


Fig. 1070 CAULK REGULAR
 Fig. 1070-Y . . . NO HUB

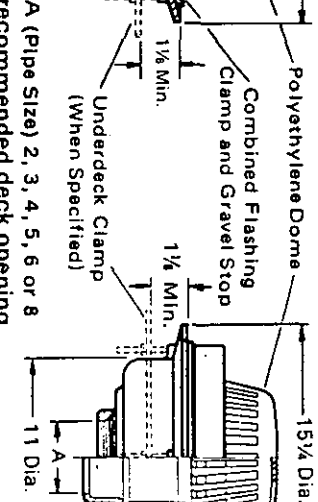


Fig. 1080 CAULK REGULAR
 Fig. 1080-Y . . . NO HUB

A (Pipe Size) 2, 3, 4, 5, 6 or 8	recommended deck opening
with suffix-R	16 1/4 Dia.
less suffix-R	14 Dia.

SET DAM AT
 1" ABOVE ROOF SURFACE

Milco Construction Co., Inc.

RECEIVED

MAY 22 1995

DIV. OF INSPECTION

270 DRUM POINT ROAD
BRICK, NEW JERSEY 08723
(908) 920-1800
Fax: (908) 920-1803

May 19, 1995

Mr. Arthur Cierzo
Construction Official
401 Chambersbridge Rd.
Brick, New Jersey 08723

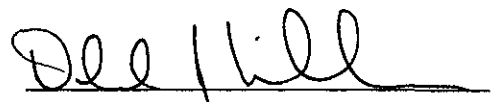
5/31/95
AC

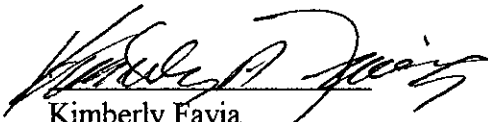
RE: Brick Plaza Renovation

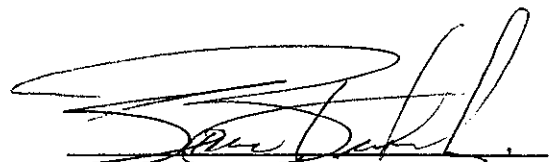
Dear Mr. Cierzo,

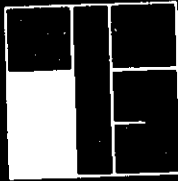
Please be advised that Milco Construction Company has been awarded the contract for the new construction of the front facade for Phase I of the Brick Plaza according to Plans and Specs by Bucher - Meyers - Polniaszek - Silkey Assoc., Inc. AIA., Silver Springs, MD dated 3-17-95.

The contract price for this Phase is \$ 1,650,000.


Donald J. Miller, President
Milco Construction Co. Inc.


Kimberly Favia
Notary Public
KIMBERLY A. FAVIA
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Mar. 27, 2000

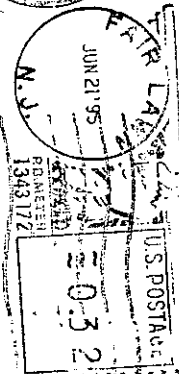

Sam Bieulich
Federal Realty Investment Trust



THE IVES GROUP
ARCHITECTS/PLANNERS

14-25 PLAZA ROAD
FAIR LAWN, NEW JERSEY 07410
(201) 791-7444

Mr. Arthur J. Cierzo
Construction Official
Brick Township
401 Chambers Bridge Road
Brick Township, New Jersey 08723





THE IVES GROUP
ARCHITECTS/PLANNERS

14-25 PLAZA ROAD
FAIR LAWN, NEW JERSEY 07410
(201) 791-7444

Fax: # (201) 794-3150

Joel Ives, AIA, Partner
Allen Weitzman, AIA, Partner
C. Joseph Smith, AIA, Associate

June 23, 1995

This correspondence was
previously transmitted by FAX

Mr. Arthur J. Cierzo
Construction Official
Brick Township
401 Chambers Bridge Road
Brick Township, New Jersey 08723

RECEIVED

JUN 26 1995

DIV. OF INSPECTION

Re: New A&P Supermarket (formerly Jamesway)
Brick Plaza Shopping Center

Dear Mr. Cierzo:

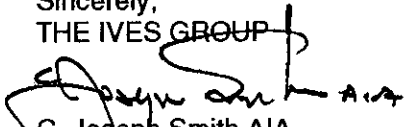
As we discussed on the phone, in the process of the renovation for the A&P store at Brick Plaza, it became apparent that the existing roof as well as the metal roof deck spanning between the steel joists was unsalvageable. Years of neglect and makeshift repairs has taken its toll. Rather than conducting a detailed survey, we advised our client it would be best to replace all metal decking now to avoid future problems and protect their substantial investment in this building.

The contractor, Milco, has proceeded to remove and replace the metal decking and is in the process of installing a new single ply roofing system as well to enclose the building as soon as possible to prevent any further weather damage to the superstructure. Our office is in the process of revising the original contract documents to reflect these design changes.

The revised plan documents will indicate the new roof decking and single ply HPG PVC membrane roof being installed. All necessary details will be provided including flashings and roof drains. Specific calculations will be indicated relative to roof loading and roof drainage to demonstrate compliance with the Building Code. Pipe hanger specifications for interior leaders will be included in this package as we had discussed.

I will forward three signed and sealed copies of these plans to your attention within a week. As of my site visit this past Thursday, everything appears to be in order.

Sincerely,
THE IVES GROUP


C. Joseph Smith AIA
Associate

cc: Marv Post - A&P
Frank D'Ariano - A&P
Ed Treshock - Milco

TOWNSHIP OF BRICK

ZONING PERMIT

Date of Issue: April 5, 1995

1995 **Z** 0405

Block 671

Lot 8

Zone B-3, H.D.

Property Address: 100 Chambers Bridge Road

Owner: Federal Realty Investment Trust

(Phone): (301) 961-9219

Applicant: Federal Realty Investment Trust; Gary Klacik

(Phone): 225-4944

Use: Brick Plaza.

Proposed Construction (if any): Exterior alterations, sidewalks, and canopy.

Conditions:

Please note that Building Permits, as well as Zoning Permits, must be obtained prior to any construction.

This permit shall be null, void and of no effect if any of the facts contained in the application upon the basis of which this permit was granted are false or untrue in any material respect. This permit shall expire one (1) year after the date of issuance if the use or substantial construction has not been commenced.

Sean Kinnevy
Sean Kinnevy

Land Use Officer

TOWNSHIP OF BRICK

OCEAN COUNTY, NEW JERSEY
401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723



Joseph C. Scarpelli, Mayor

Township Council:

Victor Cantillo, President
Stephen C. Acropolis
Helen Fayad
Lee Hartman
Thomas G. Maiorine
Mary Lou Powner
Michael A. Thulen

Department of Administration & Finance

Division of Inspections
A. J. Cierzo
Construction Official
(908) 262-1024
Fax: (908) 920-4850

July 7, 1995

1. The Wiz	Permit #:	617-95	(JEYEFF)
2. Don Miller	Permit #:	192-94	(The Wiz)
3. Don Miller	Permit #:	1242-95	(Canopy excluding A&P & Wiz)
4. Don Miller	Permit #:	1304-95	(The Wiz)
5. Don Miller	Permit #:	944-94	(The Wiz)
6. Don Miller	Permit #:	362-95	(The A&P)

671 178



THE IVES GROUP
ARCHITECTS/PLANNERS
14-25 PLAZA ROAD
FAIR LAWN, NEW JERSEY 07410
(201)791-7444

3 62-95

FAX #(201)794-3150

Joel Ives, AIA Partner
Allen Weltzman, AIA Partner

C. Joseph Smith, AIA Associate
Gary T. Snyder, R. A. Associate

FAX TRANSMISSION
Number of Pages - Including this Page:

2

Date:

6/23/95

To:

ANTHONY CIERZO

From:

C. JOSEPH SMITH AIA

Company:

TOWNSHIP OF BRICK

Address:

Subject: ATP-BRICK PLAZA ROOF

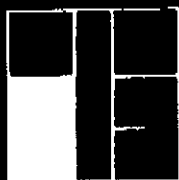
Project No:

Fax No.

908-262-1024

M E S S A G E

cc:


THE IVES GROUP
 ARCHITECTS/PLANNERS

 14-25 PLAZA ROAD
 FAIR LAWN, NEW JERSEY 07410
 (201) 791-7444

Fax: (201) 791-3150

 Joel Ives, AIA, Partner
 Allen Weitzman, AIA, Partner
 C. Joseph Smith, AIA, Associate

June 23, 1995

 Mr. Arthur J. Cierzo
 Construction Official
 Brick Township
 401 Chambers Bridge Road
 Brick Township, New Jersey 08723

 Re: New A&P Supermarket (formerly Jamesway)
 Brick Plaza Shopping Center

Dear Mr. Cierzo:

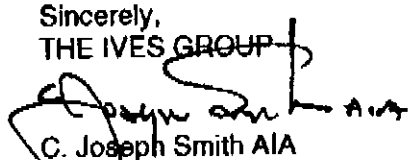
As we discussed on the phone, in the process of the renovation for the A&P store at Brick Plaza, it became apparent that the existing roof as well as the metal roof deck spanning between the steel joists was unsalvageable. Years of neglect and makeshift repairs has taken its toll. Rather than conducting a detailed survey, we advised our client it would be best to replace all metal decking now to avoid future problems and protect their substantial investment in this building.

The contractor, Milco, has proceeded to remove and replace the metal decking and is in the process of installing a new single ply roofing system as well to enclose the building as soon as possible to prevent any further weather damage to the superstructure. Our office is in the process of revising the original contract documents to reflect these design changes.

The revised plan documents will indicate the new roof decking and single ply HPG PVC membrane roof being installed. All necessary details will be provided including flashings and roof drains. Specific calculations will be indicated relative to roof loading and roof drainage to demonstrate compliance with the Building Code. Pipe hanger specifications for interior leaders will be included in this package as we had discussed.

I will forward three signed and sealed copies of these plans to your attention within a week. As of my site visit this past Thursday, everything appears to be in order.

 Sincerely,
 THE IVES GROUP


 C. Joseph Smith AIA
 Associate

 cc: Marv Post - A&P
 Frank D'Ariano - A&P
 Ed Treshock - Milco

310fa&p.623

TOWNSHIP OF BRICK
OCEAN COUNTY, NEW JERSEY
401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723



Joseph C. Scarpelli, Mayor

Township Council:
Victor Cantillo, President
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Mary Lou Powner
Michael A. Thulen

Department of Administration & Finance

Division of Inspections
A. J. Cierzo
Construction Official
(908) 262-1024
Fax: (908) 920-4850

January 31, 1995

MR MARV POST
A&P COMPANY
2 PARAGON DRIVE
MONTVALE, NJ

RE: A&P Food Store
Block 671 Lot 8
Confirmation of phone calls

Dear

An application for a construction permit application was received on January 10, 1995. Review was completed by the Zoning, Engineering, and Affordable Housing Departments. It was released to the Building Department on January 18, 1995.

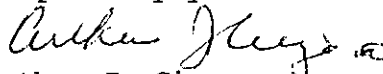
The the Building Sub-code Official has rejected the plans because they do not comply to building to Section 5 of the BOCA Building Code.

Proposed work estimates for the cost of construction appear to be inaccurate. We estimate the cost to be approximately \$6,000,000.00 and the application states that the cost of the job will be \$975,900.00.

Our office has called several times regarding this matter. Plan review cannot be completed until the plans/application have been revised to correct the discrepancies.

Should you have any further questions please contact our office.

Respectfully yours


Arthur J. Cierzo
Construction Official

cc: Honorable Mayor Scarpelli
Scott R. Mac Fadden, Business Administrator
Ray Korkowski, Building Sub-code Official
Carol Wolfe, Affordable Housing Coordinator
FILE: . DIMIS95/671

671 8 A+P
Z 438 881 492



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

PS Form 3800, March 1993

Insp/121

Send to <i>Mr. Mann Post</i>	
Street and No. <i>2 Paragon Dr.</i>	
P.O. Box, State and ZIP/Code <i>Montreal, NS</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Fold at line over top of envelope to the right of the return address

CERTIFIED

Z 438 881 492

MAIL

Is your **RETURN ADDRESS** completed on the reverse side?

SENDER: - Complete items 1 and/or 2 for additional services. - Complete items 3, and 4a & b. - Print your name and address on the reverse of this form so that we can return this card to you. - Attach this form to the front of the mailpiece, or on the back if space does not permit. - Write "Return Receipt Requested" on the mailpiece below the article number. - The Return Receipt will show to whom the article was delivered and the date delivered.		also wish to receive the following services (for an extra fee): ☐ Addressee's Address ☐ Restricted Delivery ☐ Consult postmaster for fee.	
3. Article Addressed to: <i>Mr. Mann Post</i> <i>2 Paragon Dr.</i> <i>Montreal, NS</i> <i>671 8</i>		4a. Article Number: <i>2438 881-492</i>	
5. Signature (Addressee)		4b. Service Type: ☐ Registered ☒ Certified ☐ Insured ☐ COD ☐ Express Mail ☐ Return Receipt for Merchandise	
6. Signature (Agent)		7. Date of Delivery	
8. Addressee's Address (Only if requested and fee is paid)			

PS Form 3811, December 1991 *U.S. GPO: 1993-352-714

DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service

☐ EXEMPT
☒ PRELIMINARY 4/19/95
☐ TEMPORARY
☒ FINAL 11/6/95

CERTIFICATE OF COMPLIANCE

NAME: BRICK PLAZA SHOPPING CENTER DATE: _____

ADDRESS: 130 BODMAN PL #15
RED BANK NJ 07701

PROPERTY LOCATION: 100 CHANDLER BRIDGE RD

ACCOUNT NO: _____ BLOCK 671 LOT 8

INCLUSIONARY DEVELOPMENT

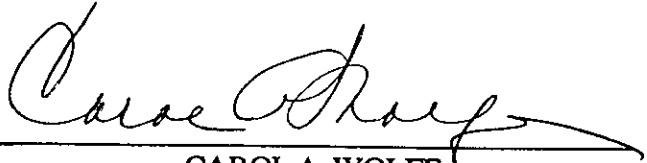
☐ Affordable Fee Required \$500.00 Date _____
Down Payment _____ Date _____
Balance _____ Date _____
Pd. in Full _____ Date _____
☐ Market Rate No Fee Required _____ Date _____

MANDATORY DEVELOPER FEES

☐ Residential is .005%
☒ Commercial is .01%

Estimated Fee \$2,079,218.00 Date: 4-19-95
Down Payment \$10,396.09 Date: 5-8-95 #1753 Adelma Realty -
Final Fee 10,396.09 Date: 11-1-95
(Less down payment)
Balance due: 10,396.09 Date: 11-1-95 Car
Pd. in Full 10,396.09 Date: 11-6-95 Car

I hereby certify that the above applicant has complied with all rules and regulations of the Office of Affordable Housing and has paid all required fees and charges.


CAROL A. WOLFE
AFFORDABLE HOUSING ADMINISTRATOR

TOWNSHIP OF BRICK
OCEAN COUNTY, NEW JERSEY
401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723



Joseph C. Scarpelli, Mayor

Township Council:
Victor Cantillo, President
Stephen C. Acropolis
Helen Fayad
Lee Hartman
Thomas G. Maiorine
Mary Lou Powner
Michael A. Thulen

Office of Affordable Housing
Carol A. Wolfe
Affordable Housing Administrator
(908) 262-1048

TO: Scott Pezarras
FROM: Carol A. Wolfe
Affordable Housing Administrator
RE: |X| Mandatory Development Fee
| | Inclusionary Development Fee

DATE: Nov. 6, 1995

*Brick Plaza
Shopping Center
Final
Canopy*

Enclosed please find check number 1976, drawn on
the account of Fed. Realty Invest in the amount of \$ 10,369.09
which represents fees levied against Block 671 Lot 8.

Collection of said fees as authorized by Township Ordinance
354-2C-93, is pursuant to N.J.S.A. 52:27d-301 et. seq. and N.J.A.C.
5:92-18 et. seq.

Received in Treasurer's Office by:

H. Milano
Signature

Date

11.6.95

CAW/bmb

cc: CKLTR-MDF

FEDERAL REALTY INVESTMENT TRUST

4-86

4800 HAMPDEN LANE
BETHESDA, MD 20814

1976

85-320/550
00056

PAY TO THE
ORDER OF

Nov 2 1995
Brick Township Affordable Housing Trust Fund \$ 10,369.09
Ten Thousand Three Hundred Sixty-nine ⁰⁹/₁₀₀ DOLLARS

**FIRST
UNION**

First Union National Bank
of Maryland
McLean, VA

FOR

Fee

Non-Left

TOWNSHIP OF BRICK
OCEAN COUNTY, NEW JERSEY
401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723



Joseph C. Scarpelli, Mayor

Township Council:
Victor Cantillo, President
Stephen C. Acropolis
Helen Fayad
Lee Hartman
Thomas G. Maiorine
Mary Lou Powner
Michael A. Thulen

Department of Administration & Finance

Office of Land Use Management
Michael P. Fowler, AICP/PP
Municipal Planner
(908) 262-1042
Fax: (908) 920-4850

April 20, 1995

Brick Plaza Shopping Center
130 Bodman Place #15
Red Bank, N.J. 07701

RE: Block 671, Lot 8
Brick Plaza Shopping Center

Attention: Gary Klacik

The Township of Brick has enacted Ordinance 354-2C-93 in conjunction with our Fair Share Plan, which was certified by the New Jersey Council on Affordable Housing on February 3, 1993.

This Ordinance requires that applicants for commercial construction which affects an added value assessment of \$15,000.00 or more pay a fee in the amount of 1% of the total equalized assessed value. The Municipal Tax Assessor has estimated that the equal assessed value for the work to be completed under the construction permit application for Block 671, Lot 8 is \$2,079,218.00, which results in a total fee due in the amount of \$20,792.18. Therefore, it is required that one half of the required fee (\$10,396.09) be paid at this time, said check being made payable to the Township of Brick for deposit in the Affordable Housing Trust Fund and the balance to be collected prior to the issuance of the Certificate of Approval/Occupancy.

We suggest that you notify this office two weeks prior to your request for a Certificate of Approval, so that the Tax Assessor's office will have adequate time to prepare a final assessment.

RE: Block 671, Lot 8
Brick Plaza Shopping Center

Page 2

Until we receive the above amount due, your application will remain in the Affordable Housing Office.

If you have any questions or wish to discuss this matter, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael P. Fowler". The signature is fluid and cursive, with the first name "Michael" being the most prominent part.

Michael P. Fowler, AICP/ P.P.
Acting Affordable Housing Administrator

MPF/bmb

cc: Frederick R. Millman, CTA, Tax Assessor
Arthur J. Cierzo, Construction Code Official
File/MDF-Brick Plaza

TOWNSHIP OF BRICK
OCEAN COUNTY, NEW JERSEY
401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723



Carolyn L. Patetta, Mayor

Township Council:

Warren H. Wolf, President
Albert Chrobocinski
Victor Cantillo
Helen Fayad
Lee Hartman
Thomas G. Maiorino
Mary Lou Powner

Office of Affordable Housing
Carol A. Wolfe
Affordable Housing Administrator
(908) 262-1048

TO: Frederick Millman, CTA
Tax Assessor

FROM: Carol A. Wolfe
Affordable Housing Administrator

RE: Block 671, Lot 8

DATE: April 6, 1995

BRICK PLAZA -
2,500,000 -



Please review the attached application for a Preliminary construction permit.

The estimated equalized added assessment for the construction at the above site is \$ 2,079,218.

Preliminary

FRM/BCH
Frederick R. Millman, CTA

4-19-95
Date



Please review the attached application for a Final Certificate of Occupancy / Approval.

The final equalized added assessment for construction at the above site is \$ _____.

Final

Frederick R. Millman, CTA

Date

☐ EXEMPT
☒ PRELIMINARY 4/19/95
☐ TEMPORARY
☐ FINAL

CERTIFICATE OF COMPLIANCE

NAME: BRICK PLAZA SHOPPING CENTER DATE: _____

ADDRESS: 130 BODMAN PL #15
RED BANK NJ 07701

PROPERTY LOCATION: 100 CHAMBERLAIN RD

ACCOUNT NO: _____ BLOCK 671 LOT 8

INCLUSIONARY DEVELOPMENT

☐ Affordable Fee Required \$500.00 Date _____
 Down Payment _____ Date _____
 Balance _____ Date _____
 Pd. in Full _____ Date _____

☐ Market Rate No Fee Required _____ Date _____

MANDATORY DEVELOPER FEES

☐ Residential is .005%
☒ Commercial is .01%

Estimated Fee \$2,079,218.00 Date: 4-19-95
 Down Payment \$10,396.09 Date: 5/8/95 \$1753 Federal
 Final Fee _____ Date: _____ Party
 (Less down payment)
 Balance _____ Date: _____
 Pd. in Full _____ Date: _____

I hereby certify that the above applicant has complied with all rules and regulations of the Office of Affordable Housing and has paid all required fees and charges.

 CAROL A. WOLFE
 AFFORDABLE HOUSING ADMINISTRATOR

☐	EXEMPT	_____
☒	PRELIMINARY	4-19-95
☐	TEMPORARY	_____
☐	FINAL	_____

CERTIFICATE OF COMPLIANCE

NAME: Blick Plaza Shopping Center DATE: _____

ADDRESS: 130 Bodman Pl #15
Red Bank NJ 07701

PROPERTY LOCATION: 100 Cambridge Avenue RD

ACCOUNT NO: _____ BLOCK 671 LOT 8

INCLUSIONARY DEVELOPMENT

☐	Affordable	Fee Required	\$500.00	Date	_____
		Down Payment	_____	Date	_____
		Balance	_____	Date	_____
		Pd. in Full	_____	Date	_____
☐	Market Rate	No Fee Required	_____	Date	_____

MANDATORY DEVELOPER FEES

☐ Residential is .005%

☒ Commercial is .01%

Estimated Fee	: <u>\$2,079,215.00</u>	Date:	<u>4-19-95</u>
Down Payment	: <u>\$10,396.09</u>	Date:	<u>5-8-95</u> #1753 To meet Reality -
Final Fee	: _____	Date:	_____
(Less down payment)			
Balance	: _____	Date:	_____
Pd. in Full	: _____	Date:	_____

I hereby certify that the above applicant has complied with all rules and regulations of the Office of Affordable Housing and has paid all required fees and charges.

 CAROL A. WOLFE
 AFFORDABLE HOUSING ADMINISTRATOR

MEDICAL CENTER

SIZING FOR WATER AND SEWER SERVICES

Property Owner BRICK PLAZA Date 4/28/93

Property Address PT 70 CLAMBER BRIDE Block 671 Lot 8

Zoning _____ Use Group _____

Contractor Gourley License No. Registration 5451

Water Main Size _____ Water Pressure _____ Sewer Main Size _____

Plumbing Fixtures	Number	(sfu) Water Units	(dfu) Drainage Units
1. Water Closet	<u>6</u>	<u>(10)</u> <u>60</u>	<u>()</u>
2. Lavatory	<u>6</u>	<u>(1)</u> <u>6</u>	<u>()</u>
3. Bath Tub	_____	<u>()</u>	<u>()</u>
4. Shower Stall	_____	<u>()</u>	<u>()</u>
5. Kitchen Sink	<u>1</u>	<u>(2)</u> <u>2</u>	<u>()</u>
6. Service Sink	_____	<u>()</u>	<u>()</u>
7. Laundry Tray	<u>1</u>	<u>(3)</u> <u>3</u>	<u>()</u>
8. Dishwasher	_____	<u>()</u>	<u>()</u>
9. Washing Machine	_____	<u>()</u>	<u>()</u>
10. Urinal	<u>1</u>	<u>(10)</u> <u>10</u>	<u>()</u>
11. Floor Drain	_____	<u>()</u>	<u>()</u>
12. Drinking Fountain	_____	<u>()</u>	<u>()</u>
13. Air Conditioner (water cooled)	_____	<u>()</u>	<u>()</u>
14. Dental Unit	_____	<u>()</u>	<u>()</u>
15. Lawn Sprinkler No. of Heads	_____	<u>()</u>	<u>()</u>
16. Fire Sprinkler No. of Heads	_____	<u>()</u>	<u>()</u>
17. <u>U</u>	_____	<u>()</u>	<u>()</u>
18. _____	_____	<u>()</u>	<u>()</u>

Total 81-

Gallons per minute 38

Size of Service 14 1/2

Date: _____

Approved: CCY 30, Ant
Brick Township Plumbing Inspector

SIZING FOR WATER AND SEWER SERVICES

Property Owner AP Stone Date _____

Property Address _____ Block 671 Lot 8

Zoning _____ Use Group _____

Contractor _____ License No. Registration _____

Water Main Size _____ Water Pressure _____ Sewer Main Size _____

<u>Plumbing Fixtures</u>	<u>Number</u>	<u>(sfu) Water Units</u>	<u>(dfu) Drainage Units</u>
1: Water Closet	<u>9</u>	<u>(5) 45</u>	<u>()</u>
2. Lavatory	<u>8</u>	<u>(2) 16</u>	<u>()</u>
3. Bath Tub	_____	<u>()</u>	<u>()</u>
4. Shower Stall	_____	<u>()</u>	<u>()</u>
5. Kitchen Sink	<u>16</u>	<u>(3) 48</u>	<u>()</u>
6. Service Sink	_____	<u>()</u>	<u>()</u>
7. Laundry Tray	_____	<u>()</u>	<u>()</u>
8. Dishwasher	_____	<u>()</u>	<u>()</u>
9. Washing Machine	_____	<u>()</u>	<u>()</u>
10. Urinal	<u>3</u>	<u>(5) 15</u>	<u>()</u>
11. Floor Drain	_____	<u>()</u>	<u>()</u>
12. Drinking Fountain	<u>2</u>	<u>(1) 2</u>	<u>()</u>
13. Air Conditioner (water cooled)	_____	<u>()</u>	<u>()</u>
14. Dental Unit	_____	<u>()</u>	<u>()</u>
15. Lawn Sprinkler No. of Heads	_____	<u>()</u>	<u>()</u>
16. Fire Sprinkler No. of Heads	_____	<u>()</u>	<u>()</u>
17. _____	_____	<u>()</u>	<u>()</u>
18. _____	_____	<u>()</u>	<u>()</u>

Total 126

Gallons per minute _____

Size of Service 2"

Date: _____

Approved: C. J. [Signature]
Brick Township Plumbing Inspector

5/17/95.

TO AUTHAR CIERZO
Building Official
Brick N.J.

RE BRICK PLAZA RENOVATION

DEAR MR. CIERZO,

This letter is in acknowledgement of
the affordable housing fee based on the
TAX ASSESSORS estimate of 3,079,218, as

we have change contractors and
will submit copies of ~~the~~ contract showing
the sum of \$648,000.00 please
base the Building Permit Fee on this
number.

Respectfully,
Sam Balch and Mary
Fred. Rausley, Inc. Trust.

cc. Gary Klack

John Effer
NJ LIC 25808
6-12-95

STORAGE

HYDRAULIC DESIGN INFORMATION SHEET

NAME A & P FOOD STORE DATE 6-12-95
LOCATION A & P PLAZA BRICKTOWN, NJ
BUILDING EXIST. SYSTEM NO. EXIST
OWNER A & P CONTRACT NO. _____
CALCULATED BY _____ DRAWING NO. 2 OF 2
CONSTRUCTION: ☐ COMBUSTIBLE ☒ NON-COMBUSTIBLE CEILING HEIGHT 17
OCCUPANCY FOOD RETAIL STORE - STORAGE AREA

SYSTEM DESIGN	☐ NFPA 13: ☐ LT.HAZ. ORD.HAZ.GP. ☐ 1 ☐ 2 ☐ 3 ☐ EX.HAZ.
	☐ NFPA 231 ☐ NFPA 231C: FIGURE _____ CURVE _____
	☐ OTHER (Specify) _____
	☐ SPECIFIC RULING <u>27/2000</u> MADE BY <u>INS. AUTH.</u> DATE _____
	SPRINKLER OPERATION AREA (FT ²) <u>2000</u> DENSITY (GPM/FT ²) <u>.27</u> AREA PER SPRINKLER (FT ²) <u>94.2</u>
SYSTEM TYPE	☒ WET ☐ DRY ☐ DELUGE ☐ PRE-ACTION
	SPRINKLER OR NOZZLE
	MAKE _____ MODEL <u>UPR.</u>
	SIZE <u>1/2</u> K-FACTOR <u>5.6</u>
	TEMPERATURE RATING <u>165</u>
HOSE ALLOWANCE GPM: INSIDE _____ HOSE ALLOWANCE GPM: OUTSIDE <u>500</u> RACK SPRINKLER ALLOWANCE _____	

CALCULATION SUMMARY GPM REQUIRED 1097.3 PSI REQUIRED 58.5 AT SITE MAIN
"C" FACTOR USED: OVERHEAD 120 UNDERGROUND 140

WATER SUPPLY	<u>WATER FLOW TEST</u> DATE & TIME _____ STATIC PSI <u>65</u> RESIDUAL PSI <u>54</u> GPM FLOWING <u>1647</u> ELEVATION <u>+13'</u>	<u>PUMP DATA</u> RATED CAPACITY _____ AT PSI _____ ELEVATION _____	<u>TANK OR RESERVOIR</u> CAPACITY _____ ELEVATION _____ <u>WELL</u> PROOF FLOW _____ GPM
	LOCATION <u>SITE</u>		
	SOURCE OF INFORMATION _____		

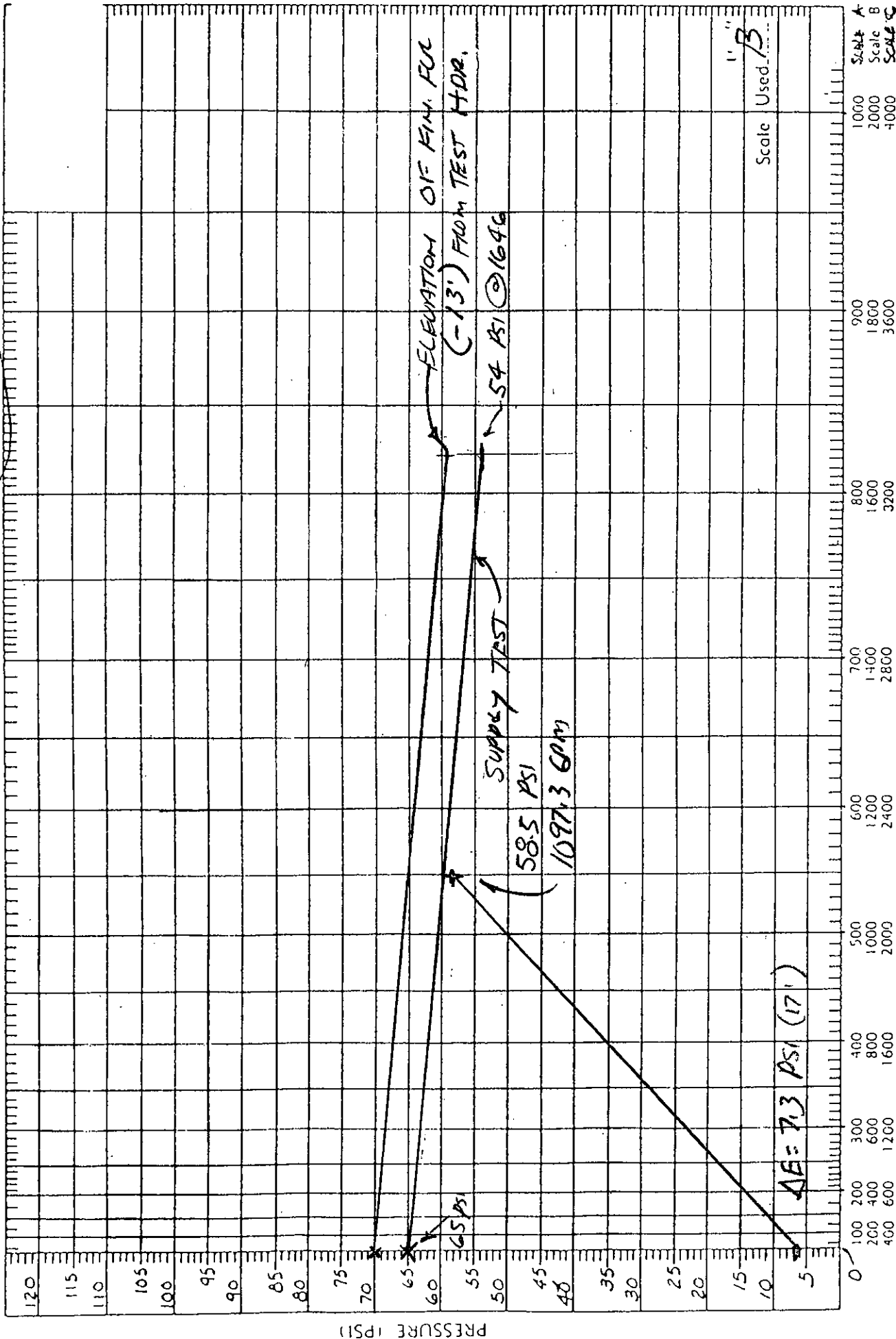
COMMODITY STORAGE	COMMODITY _____ CLASS _____ LOCATION _____
	STORAGE HEIGHT _____ AREA _____ AISLE WIDTH _____
	STORAGE METHOD: SOLID PILED _____ % PALLETIZED _____ % RACK _____ %
	☐ SINGLE ROW ☐ CONVENTIONAL PALLET ☐ AUTOMATIC STORAGE ☐ ENCAPSULATE
	☐ DOUBLE ROW ☐ SLAVE PALLET ☐ SOLID SHELVING ☐ NON-ENCAPSULATE
RACK	☐ MULTIPLE ROW ☐ OPEN
	FLUE SPACING IN INCHES LONGIT. _____ TRANSVERSE _____
	CLEARANCE FROM TOP OF STORAGE TO CEILING _____ FT. _____ IN.
HORIZONTAL BARRIERS PROVIDED _____	

A & P FOODSTORE
A & P PLAZA, BRICK, N.J.

STORAGE

CONTRACT NAME:

NO:



HYDRAULIC SYSTEM DESIGN REPORT

A & P BRICK PLAZA
BRICKTOWN, NJSHORE FIRE PROTECTION, INC.
652 DRUMPOINT RD.
BRICKTOWN, N.J.Design Engineer
SHORE FIRE PROTECTION, INC.STORAGE AREA CALCULATED TO PRODUCE .27/2000
USING EXISTING PIPE AND 1/2" OREF. PEND./
UPRIGHT SPRINKLERS, K=5.6. 500 GPM HOSE
ALLOWANCE AT STREET.

PROJECT NAME: A&P STORAGE AREAS

PROJECT NUMBER: SFPI

-----UNITS TABLE-----

LENGTHS AND ELEVATIONS IN FEET PIPE DIAMETERS IN INCHES
 PRESSURES IN POUNDS PER SQUARE INCH VOLUMES IN U.S. GALLONS
 FLOWS IN U.S. GALLONS PER MINUTE VELOCITIES IN FEET PER SECOND

DENSITY REQUIREMENT: .270 GPM/SQ.FT. OVER MOST REMOTE 2000. SQ.FT.

-----WATER SUPPLY WS1 ASSIGNED AT NODE 0-----

STATIC PRESSURE = 70.0 PSI 59.0 PSI FLOWING 1646.0 GPM

LINE	PIPE	FIT	FIT	TOTAL	PIPE	ELEV	H&W	AREA	K	PIPE	ELEV	FRIC	NORMAL	VEL	TOTAL	HEAD	PIPE	
81	LGT	COMB	E LGT	LGT	DIAM	CHANGE	COEF	COVER	FACTOR	ID	PRES	PRES	PRES	PRES	PRES	FLOW	FLOW	VEL
8	5.00	19	20.00	25.00	2.00	2.00	120.	94.2	5.60	2.067	.87	5.61	25.61	1.58	27.19	28.34	160.03	15.30
9	11.00			11.00	2.00		120.	94.2	5.60	2.067		1.72	24.40	1.07	25.47	27.66	131.69	12.59
10	11.00			11.00	2.00		120.	94.2	5.60	2.067		1.11	23.69	.67	24.36	27.26	104.02	9.95
11	11.00			11.00	1.50		120.	94.2	5.60	1.610		2.14	21.23	.98	22.22	25.80	76.77	12.10
12	11.00			11.00	1.50		120.	94.2	5.60	1.610		1.00	20.78	.43	21.22	25.53	50.96	8.03
13	11.00			11.00	1.25		120.	94.2	5.60	1.380		.59	20.63	.00	20.63	25.43	25.43	5.46

33.66 PSI PRESSURE REQUIRED FLOWING 160.0 GPM

152.60 GPM = MIN REQUIRED FLOW 4.9% EXCESS FLOW

LINE	PIPE	FIT	FIT	TOTAL	PIPE	ELEV	H&W	AREA	K	PIPE	ELEV	FRIC	NORMAL	VEL	TOTAL	HEAD	PIPE	
82	LGT	COMB	E LGT	LGT	DIAM	CHANGE	COEF	COVER	FACTOR	ID	PRES	PRES	PRES	PRES	PRES	FLOW	FLOW	VEL
14	3.00	19	20.00	23.00	2.00	2.00	120.	94.2	5.60	2.067	.87	2.53	26.97	.73	27.70	29.08	108.90	10.41
15	7.00			7.00	1.50		120.	94.2	5.60	1.610		1.46	25.17	1.06	26.23	28.10	79.81	12.58
16	17.00			17.00	1.25		120.	94.2	5.60	1.380		3.37	22.03	.83	22.86	26.29	51.72	11.09
17	11.00			11.00	1.00		120.	94.2	5.60	1.049		2.23	20.63	.00	20.63	25.43	25.43	9.44

31.09 PSI PRESSURE REQUIRED FLOWING 108.9 GPM

101.74 GPM = MIN REQUIRED FLOW 7.0% EXCESS FLOW

-----LINE ASSIGNMENT TO MAIN NODES-----

LINE 81 JOINS AT NODES: 4 6 7

LINE 82 JOINS AT NODE: 5

-----FITTING TABLE-----

5 = TF = 1 TURNING FLOW TEE FITTING

T2 = 2 TURNING FLOW TEE FITTINGS

17 = COMBINATION OF T2 GV LE

18 = COMBINATION OF CV T2 GV AV

19 = COMBINATION OF T2

MAIN PIPES																	
PIPE CONFIG	H&W COEF	PIPE DIAM	FIT COMB	PIPE LGT	FIT E LGT	TOTAL LGT	ELEV CHANGE	ELEV PRES	FRIC PRES	PRES LOSS	PIPE ID	TOTAL PRES	PIPE FLOW	VEL VEL	VEL PRES	NORMAL PRES	IN/OUT FLOW
WS1																	<1097.3>
0>																	
1	140.	8.00		.0		.0			.00	.00	8.2490	58.51	1097.3	6.59			500.0
2	140.	8.00	17	457.0	115.7	572.7	15.0	6.49	1.31	7.80	8.2490	50.71	597.3	3.59			
3	120.	6.00	18	300.0	157.0	457.0			4.93	4.93	6.3570	45.79	597.3	6.04			
B1	4	120.	4.00	5	124.0	20.0	144.0		10.91	10.91	4.2600	34.88	597.3	13.44	1.22	33.66	160.0
B2	5	120.	4.00		5.0		5.0		.21	.21	4.2600	34.67	437.3	9.84	.65	34.01	114.1
B1	6	120.	4.00		7.0		7.0		.17	.17	4.2600	34.50	323.2	7.27	.36	34.14	161.2
B1	7	120.	4.00		9.0		9.0		.06	.06	4.2600	34.43	161.9	3.65	.00	34.43	161.9

64.8 PSI PRESSURE AVAILABLE AND 58.5 PSI PRESSURE REQUIRED AT THE WATER SUPPLY WHEN FLOWING 1097.3 GPM
 540.0 GPM MINIMUM DESIGN FLOW REQUIREMENT
 500.0 GPM REQUIRED ADDITIONAL FLOW 1128.6 GPM MAXIMUM FLOW

John E. Free
N.J. LIC 25808
6-12-95

STORAGE

HYDRAULIC DESIGN INFORMATION SHEET

NAME A & P FOOD STORE DATE 6-12-95
LOCATION A & P PLAZA BRICKTOWN, NJ
BUILDING EXIST. SYSTEM NO. EXIST
OWNER A & P CONTRACT NO. _____
CALCULATED BY _____ DRAWING NO. 2 OF 2
CONSTRUCTION: ☐ COMBUSTIBLE ☒ NON-COMBUSTIBLE CEILING HEIGHT 17
OCCUPANCY FOOD RETAIL STORE - STORAGE AREA

SYSTEM DESIGN

☐ NFPA 13: ☐ LT.HAZ. ORD.HAZ.GP. ☐ 1 ☐ 2 ☐ 3 ☐ EX.HAZ.
☐ NFPA 231 ☐ NFPA 231C: FIGURE _____ CURVE _____
☐ OTHER(Specify) _____
☐ SPECIFIC RULING 27/2000 MADE BY INS. AUTH. DATE _____
SPRINKLER OPERATION AREA (FT²) 2000
DENSITY (GPM/FT²) .27
AREA PER SPRINKLER (FT²) 94.2
HOSE ALLOWANCE GPM: INSIDE -
HOSE ALLOWANCE GPM: OUTSIDE 500
RACK SPRINKLER ALLOWANCE -
SYSTEM TYPE
☒ WET ☐ DRY ☐ DELUGE ☐ PRE-ACTION
SPRINKLER OR NOZZLE
MAKE _____ MODEL UPR.
SIZE 1/2 K-FACTOR 5.6
TEMPERATURE RATING 165

CALCULATION SUMMARY

GPM REQUIRED 1097.3 PSI REQUIRED 58.5 AT SITE-MAIN
"C" FACTOR USED: OVERHEAD 120 UNDERGROUND 140

WATER SUPPLY

WATER FLOW TEST
DATE & TIME _____
STATIC PSI 65
RESIDUAL PSI 54
GPM FLOWING 1647
ELEVATION +13'
PUMP DATA
RATED CAPACITY _____
AT PSI _____
ELEVATION _____
TANK OR RESERVOIR
CAPACITY _____
ELEVATION _____
WELL
PROOF FLOW _____ GPM
LOCATION SITE
SOURCE OF INFORMATION _____

COMMODITY STORAGE

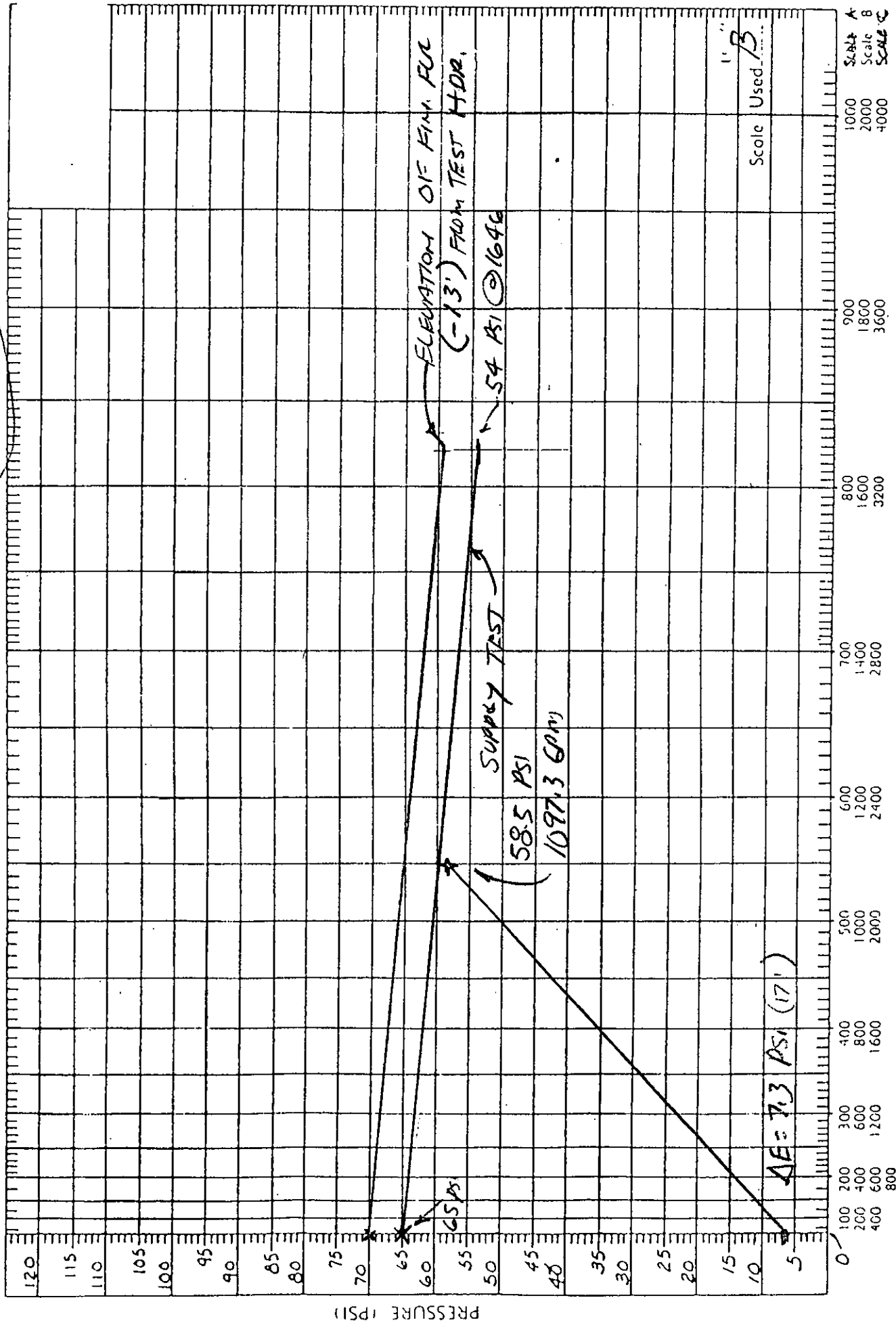
COMMODITY _____ CLASS _____ LOCATION _____
STORAGE HEIGHT _____ AREA _____ AISLE WIDTH _____
STORAGE METHOD: SOLID PILED _____ % PALLETIZED _____ % RACK _____ %
RACK
☐ SINGLE ROW ☐ CONVENTIONAL PALLET ☐ AUTOMATIC STORAGE ☐ ENCAPSULATE
☐ DOUBLE ROW ☐ SLAVE PALLET ☐ SOLID SHELVING ☐ NON-
☐ MULTIPLE ROW ☐ OPEN ☐ ENCAPSULATE
FLUE SPACING IN INCHES
LONGIT. _____ TRANSVERSE _____
CLEARANCE FROM TOP OF STORAGE TO CEILING
_____ FT. _____ IN.
HORIZONTAL BARRIERS PROVIDED _____

A & P FOODSTORE
A & P PLAZA, BRICK, N.J.

CONTRACT NAME:

NO:

STORAGE



FLOW - GPM

Serial Number 1012122 Run Number 06267

CAFE

June 12, 1995

HYDRAULIC SYSTEM DESIGN REPORT

A & P BRICK PLAZA
BRICKTOWN, NJSHORE FIRE PROTECTION, INC.
652 DRUMPOINT RD.
BRICKTOWN, N.J.Design Engineer
SHORE FIRE PROTECTION, INC.STORAGE AREA CALCULATED TO PRODUCE .27/2000
USING EXISTING PIPE AND 1/2" OREF. PEND./
UPRIGHT SPRINKLERS, K=5.6. 500 GPM HOSE
ALLOWANCE AT STREET.

PROJECT NAME: A&P STORAGE AREAS

PROJECT NUMBER: SFPI

-----UNITS TABLE-----

LENGTHS AND ELEVATIONS IN FEET PIPE DIAMETERS IN INCHES
 PRESSURES IN POUNDS PER SQUARE INCH VOLUMES IN U.S. GALLONS
 FLOWS IN U.S. GALLONS PER MINUTE VELOCITIES IN FEET PER SECOND

DENSITY REQUIREMENT: .270 GPM/SQ.FT. OVER MOST REMOTE 2000. SQ.FT.

-----WATER SUPPLY WS1 ASSIGNED AT NODE 0-----
 STATIC PRESSURE = 70.0 PSI 59.0 PSI FLOWING 1646.0 GPM

LINE B1	PIPE LGT	FIT COMB	FIT E LGT	TOTAL LGT	PIPE DIAM	ELEV CHANGE	H&W COEF	AREA COVER	K FACTOR	PIPE ID	ELEV PRES	FRIC PRES	NORMAL PRES	VEL PRES	TOTAL PRES	HEAD FLOW	PIPE FLOW	VEL
8	5.00	19	20.00	25.00	2.00	2.00	120.	94.2	5.60	2.067	.87	5.61	25.61	1.58	27.19	28.34	160.03	15.30
9	11.00			11.00	2.00		120.	94.2	5.60	2.067		1.72	24.40	1.07	25.47	27.66	131.69	12.59
10	11.00			11.00	2.00		120.	94.2	5.60	2.067		1.11	23.69	.67	24.36	27.26	104.02	9.95
11	11.00			11.00	1.50		120.	94.2	5.60	1.610		2.14	21.23	.98	22.22	25.80	76.77	12.10
12	11.00			11.00	1.50		120.	94.2	5.60	1.610		1.00	20.78	.43	21.22	25.53	50.96	8.03
13	11.00			11.00	1.25		120.	94.2	5.60	1.380		.59	20.63	.00	20.63	25.43	25.43	5.46

33.66 PSI PRESSURE REQUIRED FLOWING 160.0 GPM

152.60 GPM = MIN REQUIRED FLOW 4.9% EXCESS FLOW

LINE B2	PIPE LGT	FIT COMB	FIT E LGT	TOTAL LGT	PIPE DIAM	ELEV CHANGE	H&W COEF	AREA COVER	K FACTOR	PIPE ID	ELEV PRES	FRIC PRES	NORMAL PRES	VEL PRES	TOTAL PRES	HEAD FLOW	PIPE FLOW	VEL
14	3.00	19	20.00	23.00	2.00	2.00	120.	94.2	5.60	2.067	.87	2.53	26.97	.73	27.70	29.08	108.90	10.41
15	7.00			7.00	1.50		120.	94.2	5.60	1.610		1.46	25.17	1.06	26.23	28.10	79.81	12.58
16	17.00			17.00	1.25		120.	94.2	5.60	1.380		3.37	22.03	.83	22.86	26.29	51.72	11.09
17	11.00			11.00	1.00		120.	94.2	5.60	1.049		2.23	20.63	.00	20.63	25.43	25.43	9.44

31.09 PSI PRESSURE REQUIRED FLOWING 108.9 GPM

101.74 GPM = MIN REQUIRED FLOW 7.0% EXCESS FLOW

-----LINE ASSIGNMENT TO MAIN NODES-----

LINE B1 JOINS AT NODES: 4 6 7

LINE B2 JOINS AT NODE: 5

-----FITTING TABLE-----

5 = T1 = 1 TURNING FLOW TEE FITTING
 T2 = 2 TURNING FLOW TEE FITTINGS
 17 = COMBINATION OF T2 GV LE
 18 = COMBINATION OF CV T2 GV AV

MAIN PIPES																	
PIPE CONFIG	H&W COEF	PIPE DIAM	FIT COMB	PIPE LGT	FIT E LGT	TOTAL LGT	ELEV CHANGE	ELEV PRES	FRIC PRES	PRES LOSS	PIPE ID	TOTAL PRES	PIPE FLOW	VEL VEL	VEL PRES	NORMAL PRES	IN/OUT FLOW
WS1																	<1097.3>
0>																	
1	140.	8.00		.0		.0			.00	.00	8.2490	58.51	1097.3	6.59			500.0
2	140.	8.00	17	457.0	115.7	572.7	15.0	6.49	1.31	7.80	8.2490	50.71	597.3	3.59			
3	120.	6.00	18	300.0	157.0	457.0			4.93	4.93	6.3570	45.79	597.3	6.04			
81	4	120.	4.00	5	124.0	20.0	144.0		10.91	10.91	4.2600	34.88	597.3	13.44	1.22	33.66	160.0
82	5	120.	4.00		5.0		5.0		.21	.21	4.2600	34.67	437.3	9.84	.65	34.01	114.1
81	6	120.	4.00		7.0		7.0		.17	.17	4.2600	34.50	323.2	7.27	.36	34.14	161.2
81	7	120.	4.00		9.0		9.0		.06	.06	4.2600	34.43	161.9	3.65	.00	34.43	161.9

64.8 PSI PRESSURE AVAILABLE AND 58.5 PSI PRESSURE REQUIRED AT THE WATER SUPPLY WHEN FLOWING 1097.3 GPM

540.0 GPM MINIMUM DESIGN FLOW REQUIREMENT

500.0 GPM REQUIRED ADDITIONAL FLOW

1128.6 GPM MAXIMUM FLOW

John E. Free
NO LIC 25808
6-12-95
(SALES)

HYDRAULIC DESIGN INFORMATION SHEET

NAME AEP FOOD STORE DATE 6-12-95
LOCATION AEP PLAZA BRICKTOWN, NJ
BUILDING EXIST. SYSTEM NO. EXIST
OWNER AEP CONTRACT NO. _____
CALCULATED BY _____ DRAWING NO. 1 OF 2
CONSTRUCTION: ☐ COMBUSTIBLE ☒ NON-COMBUSTIBLE CEILING HEIGHT 17
OCCUPANCY FOOD RETAIL STORE (SALES)

SYSTEM DESIGN

☐ NFPA 13:	☐ LT.HAZ.	ORD.HAZ.GP.	☐ 1	☐ 2	☐ 3	☐ EX.HAZ.
☐ NFPA 231	☐ NFPA 231C:	FIGURE _____	CURVE _____			
☐ OTHER(Specify) _____	MADE BY <u>IMS. CO.</u> DATE _____					
☐ SPECIFIC RULING <u>.18/2000</u>						
SPRINKLER OPERATION AREA (FT ²) <u>2000</u>		SYSTEM TYPE				
DENSITY (GPM/FT ²) <u>.18</u>		☒ WET ☐ DRY ☐ DELUGE ☐ PRE-ACTION				
AREA PER SPRINKLER (FT ²) <u>120</u>		SPRINKLER OR NOZZLE				
HOSE ALLOWANCE GPM: INSIDE _____		MAKE _____ MODEL _____				
HOSE ALLOWANCE GPM: OUTSIDE <u>250</u>		SIZE <u>1/2</u> K-FACTOR <u>5.6</u>				
RACK SPRINKLER ALLOWANCE _____		TEMPERATURE RATING <u>165</u>				

CALCULATION SUMMARY

GPM REQUIRED 785.6 PSI REQUIRED 62.0 AT SITE MAIN
"C" FACTOR USED: OVERHEAD 120 UNDERGROUND 140

WATER SUPPLY

<u>WATER FLOW TEST</u>	<u>PUMP DATA</u>	<u>TANK OR RESERVOIR</u>
DATE & TIME _____	RATED CAPACITY _____	CAPACITY _____
STATIC PSI <u>65</u>	AT PSI _____	ELEVATION _____
RESIDUAL PSI <u>54</u>	ELEVATION _____	
GPM FLOWING <u>1647</u>		<u>WELL</u>
ELEVATION <u>+13'</u>		PROOF FLOW _____ GPM
LOCATION <u>SITE</u>		
SOURCE OF INFORMATION _____		

COMMODITY STORAGE

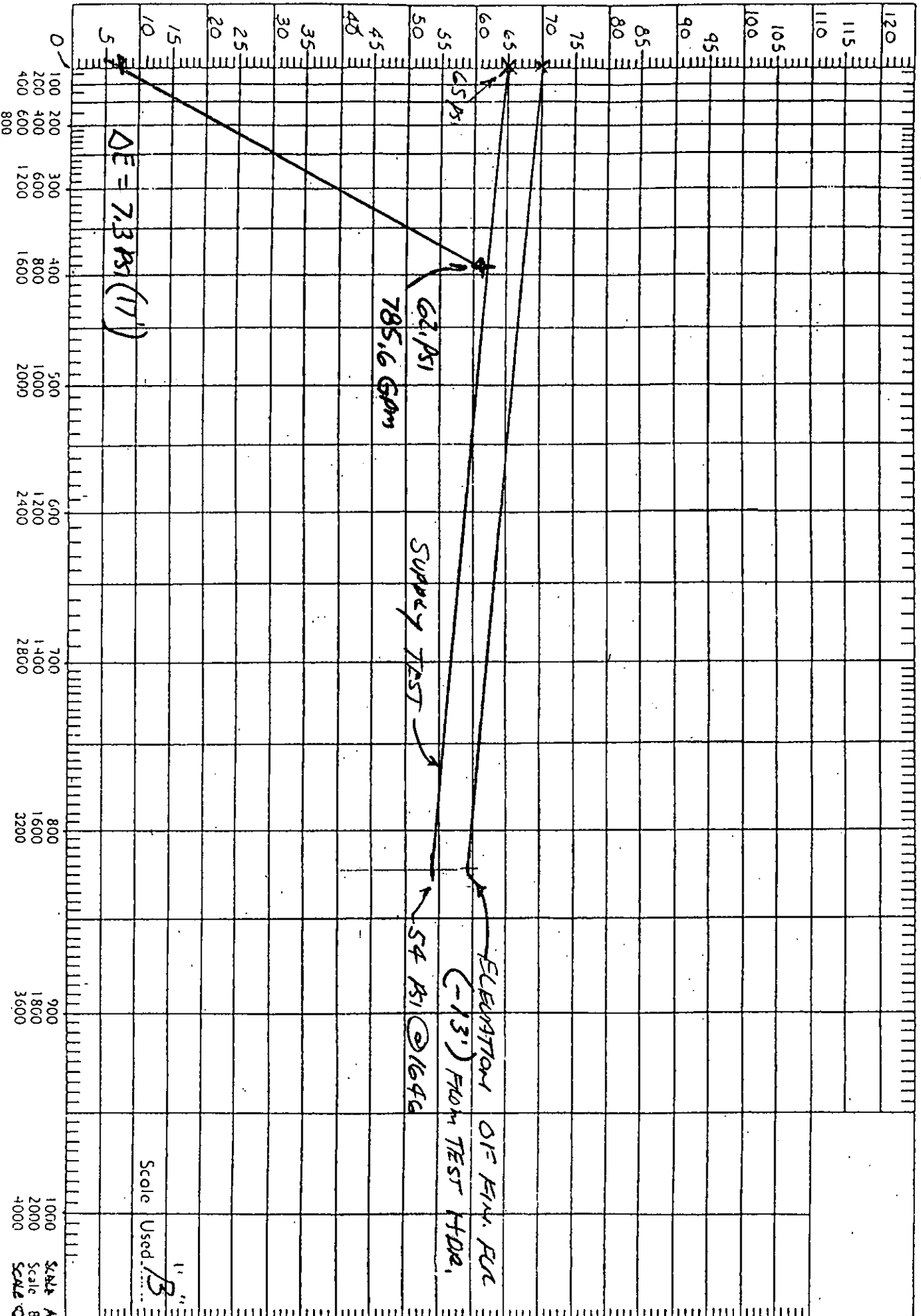
COMMODITY _____	CLASS _____	LOCATION _____
STORAGE HEIGHT _____	AREA _____	aisle WIDTH _____
STORAGE METHOD: SOLID PILED _____ %	PALLETIZED _____ %	RACK _____ %
☐ SINGLE ROW	☐ CONVENTIONAL PALLET	☐ AUTOMATIC STORAGE
☐ DOUBLE ROW	☐ SLAVE PALLET	☐ SOLID SHELVING
☐ MULTIPLE ROW	☐ OPEN	☐ NON-ENCAPSULATE
FLUE SPACING IN INCHES		CLEARANCE FROM TOP OF STORAGE TO CEILING
LONGIT. _____	TRANSVERSE _____	_____ FT. _____ IN.
HORIZONTAL BARRIERS PROVIDED _____		

CONTRACT NAME:

A&P FOODSTORE
A&P Plaza, BRICK, NJ.

NO:

PRESSURE (PSI)



FLOW - GPM

Scale Used 1/3"

Serial Number 1012122 Run Number 06265

CAFE

June 12, 1995

A & P BRICK PLAZA
BRICKTOWN, NJ

HYDRAULIC SYSTEM DESIGN REPORT

SHORE FIRE PROTECTION, INC.
652 DRUMPOINT RD.
BRICKTOWN, N.J.Design Engineer
SHORE FIRE PROTECTION, INC.SALES AREA CALCULATED TO PRODUCE .18/2000
USING EXISTING PIPE AND 1/2" OREF. PEND./
UPRIGHT SPRINKLERS, K=5.6. 250 GPM HOSE
ALLOWANCE AT STREET.

PROJECT NAME: A&P SALES AREAS

PROJECT NUMBER: SFPI

-----UNITS TABLE-----

LENGTHS AND ELEVATIONS IN FEET PIPE DIAMETERS IN INCHES
 PRESSURES IN POUNDS PER SQUARE INCH VOLUMES IN U.S. GALLONS
 FLOWS IN U.S. GALLONS PER MINUTE VELOCITIES IN FEET PER SECOND

DENSITY REQUIREMENT: .180 GPM/SQ.FT. OVER MOST REMOTE 2000. SQ.FT.

-----WATER SUPPLY WSI ASSIGNED AT NODE 0-----
 STATIC PRESSURE = 70.0 PSI 59.0 PSI FLOWING 1646.0 GPM

LINE B1	PIPE LGT	FIT COMB	FIT E LGT	TOTAL LGT	PIPE DIAM	ELEV CHANGE	H&W COEF	AREA COVER	K FACTOR	PIPE ID	ELEV PRES	FRIC PRES	NORMAL PRES	VEL PRES	TOTAL PRES	HEAD FLOW	PIPE FLOW	VEL
9	1.00	5	10.00	11.00	2.00		120.	.0	.00	2.067		2.92	37.37	1.89	39.26		175.46	16.78
10	15.00	5	10.00	25.00	2.00		120.	110.0	5.60	2.067		6.65	30.72	1.89	32.62	31.04	175.46	16.78
11	11.00			11.00	2.00		120.	110.0	5.60	2.067		2.04	29.29	1.28	30.58	30.31	144.42	13.81
12	11.00			11.00	1.50		120.	110.0	5.60	1.610		4.46	23.94	2.18	26.12	27.40	114.11	17.98
13	11.00			11.00	1.25		120.	110.0	5.60	1.380		5.68	18.11	2.33	20.44	23.83	86.71	18.60
14	8.00			8.00	1.25		120.	110.0	5.60	1.380		2.28	16.94	1.22	18.16	23.05	62.88	13.49
15	9.00			9.00	1.00		120.	110.0	5.60	1.049		4.19	12.50	1.47	13.97	19.80	39.83	14.79
16	9.00			9.00	1.00		120.	110.0	5.60	1.049		1.17	12.80	.00	12.80	20.03	20.03	7.44

42.19 PSI PRESSURE REQUIRED FLOWING 175.5 GPM

138.60 GPM = MIN REQUIRED FLOW 26.6% EXCESS FLOW

LINE B2	PIPE LGT	FIT COMB	FIT E LGT	TOTAL LGT	PIPE DIAM	ELEV CHANGE	H&W COEF	AREA COVER	K FACTOR	PIPE ID	ELEV PRES	FRIC PRES	NORMAL PRES	VEL PRES	TOTAL PRES	HEAD FLOW	PIPE FLOW	VEL
017	15.00	19	20.00	35.00	2.00		120.	130.0	5.60	2.067		8.65	37.09	1.75	38.84	34.10	168.64	16.12
018	11.00			11.00	1.50		120.	130.0	5.60	1.610		6.04	29.77	3.03	32.79	30.55	134.53	21.20
019	11.00			11.00	1.50		120.	130.0	5.60	1.610		3.75	27.24	1.81	29.04	29.23	103.98	16.39
020	8.00			8.00	1.25		120.	130.0	5.60	1.380		3.14	24.17	1.73	25.90	27.53	74.75	16.03
021	10.00			10.00	1.00		120.	130.0	5.60	1.049		6.38	17.46	2.07	19.53	23.40	47.22	17.53
022	8.00			8.00	1.00		120.	130.0	5.60	1.049		1.44	18.09	.00	18.09	23.82	23.82	8.84

47.48 PSI PRESSURE REQUIRED FLOWING 168.6 GPM

140.40 GPM = MIN REQUIRED FLOW 20.1% EXCESS FLOW

-----LINE ASSIGNMENT TO MAIN NODES-----

LINE B2 JOINS AT NODE: 6

LINE B1 JOINS AT NODES: 7 8

-----FITTING TABLE-----

5 = TF = 1 TURNING FLOW TEE FITTING
 T2 = 2 TURNING FLOW TEE FITTINGS
 L3 = 3 LONG TURN 90 DEGREE ELBOWS
 17 = COMBINATION OF TF GV LE
 18 = COMBINATION OF GV AV L3
 19 = COMBINATION OF T2

MAIN PIPES																		
PIPE CONFIG	H&W COEF	PIPE DIAM	FIT COMB	PIPE LGT	FIT E LGT	TOTAL LGT	ELEV CHANGE	ELEV PRES	FRIC PRES	PRES LOSS	PIPE ID	TOTAL PRES	PIPE FLOW	PIPE VEL	VEL PRES	NORMAL PRES	IN/OUT FLOW	
WS1																	<785.6>	
0>																		
	1	140.	8.00		.0	.0			.00	.00	8.2490	62.03	785.6	4.72			250.0	
	2	140.	8.00	17	500.0	69.2	569.2		1.06	1.06	8.2490	60.97	535.6	3.22				
	3	120.	8.00	18	91.0	88.0	179.0	17.0	7.36	.44	7.80	8.2490	53.16	535.6	3.22			
	4	120.	6.00		43.0		43.0		.38	.38	6.3570	52.78	535.6	5.41				
	5	120.	5.00	5	36.0	27.0	63.0		1.35	1.35	5.2950	51.43	535.6	7.80				
82	>*>	6	120.		48.0		48.0		2.97	2.97	4.2600	48.46	535.6	12.06	.98	47.48	168.6	
81	>*>	7	120.		12.0		12.0		1.36	1.36	3.2600	47.10	366.9	14.10	1.34	45.76	183.0	
81	>*>	8	120.		10.0		10.0		.89	.89	2.6350	46.21	183.9	10.82	.00	46.21	183.9	

67.2 PSI PRESSURE AVAILABLE AND 62.0 PSI PRESSURE REQUIRED AT THE WATER SUPPLY WHEN FLOWING 785.6 GPM
 360.0 GPM MINIMUM DESIGN FLOW REQUIREMENT
 250.0 GPM REQUIRED ADDITIONAL FLOW 807.4 GPM MAXIMUM FLOW

John E. F...
NO 21C 25808
6-12-95
(SALES)

HYDRAULIC DESIGN INFORMATION SHEET

NAME A & P FOOD STORE DATE 6-12-95
LOCATION A & P PLAZA BRICKTOWN, NJ
BUILDING EXIST. SYSTEM NO. EXIST
OWNER A & P CONTRACT NO. _____
CALCULATED BY _____ DRAWING NO. 1 OF 2
CONSTRUCTION: ☐ COMBUSTIBLE ☒ NON-COMBUSTIBLE CEILING HEIGHT 17
OCCUPANCY FOOD RETAIL STORE (SALES)

SYSTEM DESIGN

☐ NFPA 13:	☐ LT.HAZ.	ORD.HAZ.GP.	☐ 1 ☐ 2 ☐ 3	☐ EX.HAZ.
☐ NFPA 231	☐ NFPA 231C:	FIGURE _____	CURVE _____	
☐ OTHER(Specify) _____				
☐ SPECIFIC RULING <u>.18/2000</u> MADE BY <u>IMS CO.</u> DATE _____				
SPRINKLER OPERATION AREA (FT ²) <u>2000</u>				
DENSITY (GPM/FT ²) <u>.78</u>				
AREA PER SPRINKLER (FT ²) <u>120</u>				
HOSE ALLOWANCE GPM: INSIDE _____				
HOSE ALLOWANCE GPM: OUTSIDE <u>250</u>				
RACK SPRINKLER ALLOWANCE _____				
SYSTEM TYPE				
☒ WET ☐ DRY ☐ DELUGE ☐ PRE-ACTION				
SPRINKLER OR NOZZLE				
MAKE _____ MODEL _____				
SIZE <u>1/2</u> K-FACTOR <u>5.6</u>				
TEMPERATURE RATING <u>165</u>				

CALCULATION SUMMARY

GPM REQUIRED 785.6 PSI REQUIRED 62.0 AT SITE MAIN
"C" FACTORE USED: OVERHEAD 120 UNDERGROUND 140

WATER SUPPLY

WATER FLOW TEST	PUMP DATA	TANK OR RESERVOIR
DATE & TIME _____	RATED CAPACITY _____	CAPACITY _____
STATIC PSI <u>65</u>	AT PSI _____	ELEVATION _____
RESIDUAL PSI <u>54</u>	ELEVATION _____	_____
GPM FLOWING <u>1647</u>	_____	WELL
ELEVATION <u>+13'</u>	_____	PROOF FLOW _____ GPM

LOCATION SITE
SOURCE OF INFORMATION _____

COMMODITY STORAGE

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

RACK

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

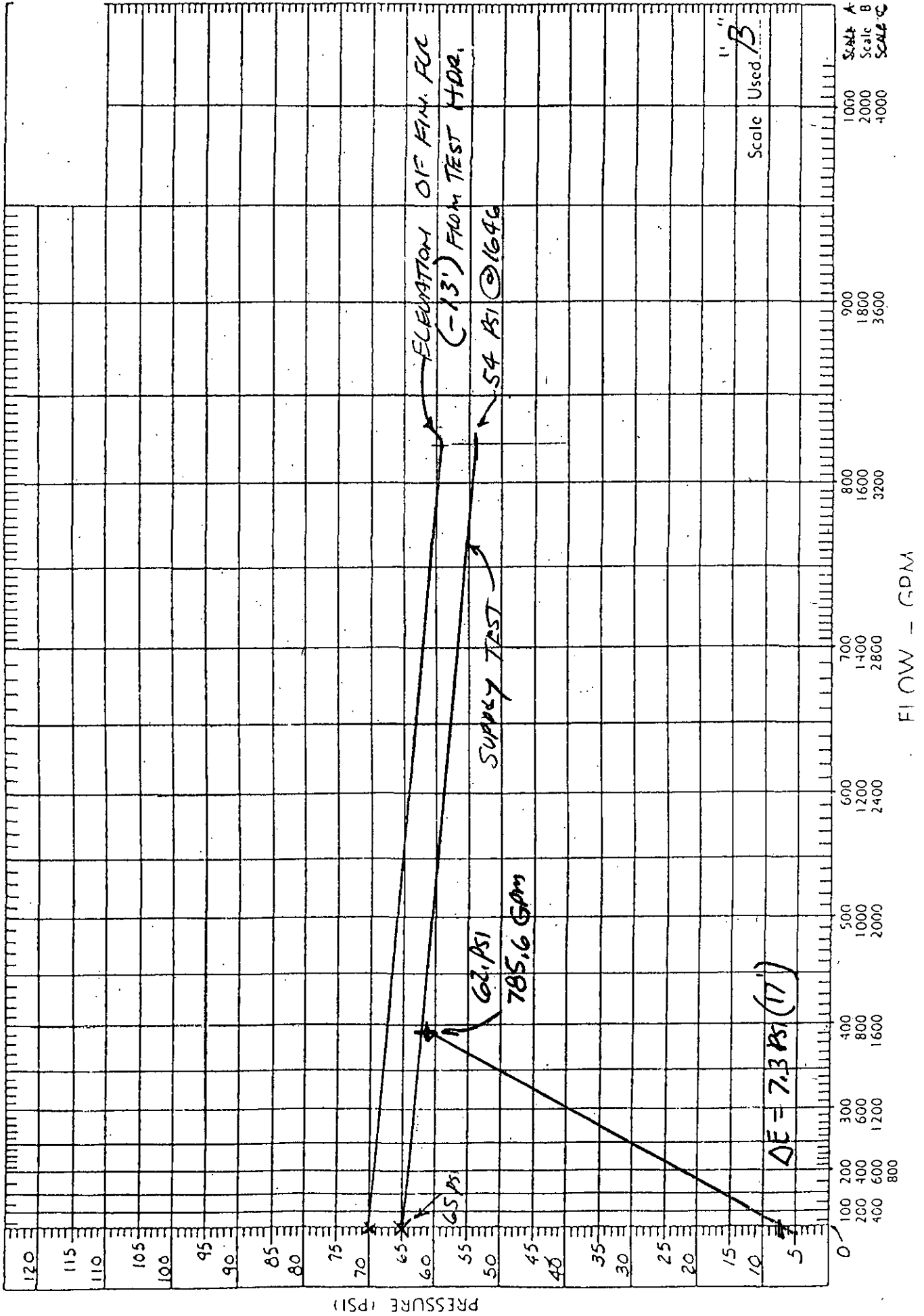
FLUE SPACING IN INCHES
LONGIT. _____ TRANSVERSE _____
CLEARANCE FROM TOP OF STORAGE TO CEILING
_____ FT. _____ IN.

HORIZONTAL BARRIERS PROVIDED _____

A & P Foodstore
A & P Plaza, Brick, NJ.

CONTRACT NAME:

NO:



Serial Number 1012122 Run Number 06265

CAFE

June 12, 1995

A & P BRICK PLAZA
BRICKTOWN, NJ

HYDRAULIC SYSTEM DESIGN REPORT

SHORE FIRE PROTECTION, INC.
652 DRUMPOINT RD.
BRICKTOWN, N.J.Design Engineer
SHORE FIRE PROTECTION, INC.SALES AREA CALCULATED TO PRODUCE .18/2000
USING EXISTING PIPE AND 1/2" OREF. PEND./
UPRIGHT SPRINKLERS, K=5.6. 250 GPM HOSE-
ALLOWANCE AT STREET.

PROJECT NAME: A&P SALES AREAS

PROJECT NUMBER: SFPI

-----UNITS TABLE-----

LENGTHS AND ELEVATIONS IN FEET PIPE DIAMETERS IN INCHES
 PRESSURES IN POUNDS PER SQUARE INCH VOLUMES IN U.S. GALLONS
 FLOWS IN U.S. GALLONS PER MINUTE VELOCITIES IN FEET PER SECOND

DENSITY REQUIREMENT: .180 GPM/SQ.FT. OVER MOST REMOTE 2000. SQ.FT.

-----WATER SUPPLY WSI ASSIGNED AT NODE 0-----
 STATIC PRESSURE = 70.0 PSI 59.0 PSI FLOWING 1646.0 GPM

LINE B1	PIPE LGT	FIT COMB	FIT E LGT	TOTAL LGT	PIPE DIAM	ELEV CHANGE	H&W COEF	AREA COVER	K FACTOR	PIPE ID	ELEV PRES	FRIC PRES	NORMAL PRES	VEL PRES	TOTAL PRES	HEAD FLOW	PIPE FLOW	PIPE VEL
9	1.00	5	10.00	11.00	2.00		120.	.0	.00	2.067		2.92	37.37	1.89	39.26		175.46	16.78
10	15.00	5	10.00	25.00	2.00		120.	110.0	5.60	2.067		6.65	30.72	1.89	32.62	31.04	175.46	16.78
11	11.00			11.00	2.00		120.	110.0	5.60	2.067		2.04	29.29	1.28	30.58	30.31	144.42	13.81
12	11.00			11.00	1.50		120.	110.0	5.60	1.610		4.46	23.94	2.18	26.12	27.40	114.11	17.98
13	11.00			11.00	1.25		120.	110.0	5.60	1.380		5.68	18.11	2.33	20.44	23.83	86.71	18.60
14	8.00			8.00	1.25		120.	110.0	5.60	1.380		2.28	16.94	1.22	18.16	23.05	62.88	13.49
15	9.00			9.00	1.00		120.	110.0	5.60	1.049		4.19	12.50	1.47	13.97	19.80	39.83	14.79
16	9.00			9.00	1.00		120.	110.0	5.60	1.049		1.17	12.80	.00	12.80	20.03	20.03	7.44

42.19 PSI PRESSURE REQUIRED FLOWING 175.5 GPM

138.60 GPM = MIN REQUIRED FLOW 26.6% EXCESS FLOW

LINE B2	PIPE LGT	FIT COMB	FIT E LGT	TOTAL LGT	PIPE DIAM	ELEV CHANGE	H&W COEF	AREA COVER	K FACTOR	PIPE ID	ELEV PRES	FRIC PRES	NORMAL PRES	VEL PRES	TOTAL PRES	HEAD FLOW	PIPE FLOW	PIPE VEL	
17	15.00	19	20.00	35.00	2.00			120.	130.0	5.60	2.067		8.65	37.09	1.75	38.84	34.10	168.64	16.12
18	11.00			11.00	1.50			120.	130.0	5.60	1.610		6.04	29.77	3.03	32.79	30.55	134.53	21.20
19	11.00			11.00	1.50			120.	130.0	5.60	1.610		3.75	27.24	1.81	29.04	29.23	103.98	16.39
20	8.00			8.00	1.25			120.	130.0	5.60	1.380		3.14	24.17	1.73	25.90	27.53	74.75	16.03
21	10.00			10.00	1.00			120.	130.0	5.60	1.049		6.38	17.46	2.07	19.53	23.40	47.22	17.53
22	8.00			8.00	1.00			120.	130.0	5.60	1.049		1.44	18.09	.00	18.09	23.82	23.82	8.84

47.48 PSI PRESSURE REQUIRED FLOWING 168.6 GPM

140.40 GPM = MIN REQUIRED FLOW 20.1% EXCESS FLOW

-----LINE ASSIGNMENT TO MAIN NODES-----

LINE B2 JOINS AT NODE: 6

LINE B1 JOINS AT NODES: 7 8

-----FITTING TABLE-----

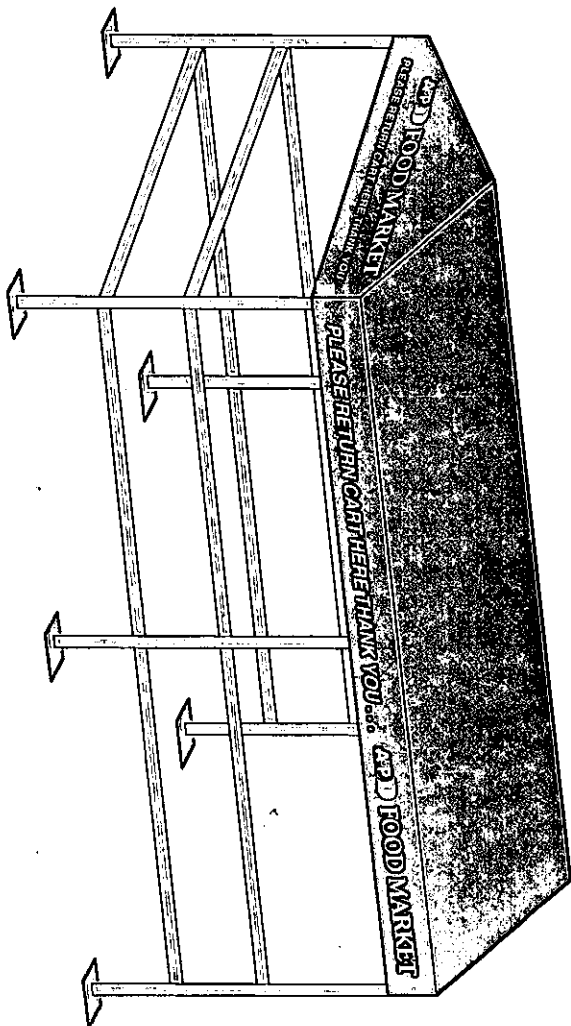
5 = TF = 1 TURNING FLOW TEE FITTING
 T2 = 2 TURNING FLOW TEE FITTINGS
 L3 = 3 LONG TURN 90 DEGREE ELBOWS
 17 = COMBINATION OF TF GV LE
 18 = COMBINATION OF GV AV L3
 19 = COMBINATION OF T2

MAIN PIPES																	
PIPE CONFIG	H&W COEF	PIPE DIAM	FIT COMB	PIPE LGT	FIT E LGT	TOTAL LGT	ELEV CHANGE	ELEV PRES	FRIC PRES	PRES LOSS	PIPE ID	TOTAL PRES	PIPE FLOW	VEL VEL	VEL PRES	NORMAL PRES	IN/OUT FLOW
WSI																	<785.6>
0>																	
	1	140.	8.00		.0	.0			.00	.00	8.2490	62.03	785.6	4.72			250.0
	2	140.	8.00	17	500.0	69.2	569.2		1.06	1.06	8.2490	60.97	535.6	3.22			
	3	120.	8.00	18	91.0	88.0	179.0	17.0	7.36	.44	7.80	8.2490	53.16	535.6	3.22		
	4	120.	6.00		43.0		43.0		.38	.38	6.3570	52.78	535.6	5.41			
	5	120.	5.00	5	36.0	27.0	63.0		1.35	1.35	5.2950	51.43	535.6	7.80			
B2	* 6	120.	4.00		48.0		48.0		2.97	2.97	4.2600	48.46	535.6	12.06	.98	47.48	168.6
B1	* 7	120.	3.00		12.0		12.0		1.36	1.36	3.2600	47.10	366.9	14.10	1.34	45.76	183.0
B1	* 8	120.	2.50		10.0		10.0		.89	.89	2.6350	46.21	183.9	10.82	.00	46.21	183.9

67.2 PSI PRESSURE AVAILABLE AND 62.0 PSI PRESSURE REQUIRED AT THE WATER SUPPLY WHEN FLOWING 785.6 GPM
 360.0 GPM MINIMUM DESIGN FLOW REQUIREMENT
 250.0 GPM REQUIRED ADDITIONAL FLOW 807.4 GPM MAXIMUM FLOW

SHOW ON SHEET #3
DETAILS " #26

Model 103 3 BAY, SINGLE ENTRY CORRADA
Size 14'6" x 7'-4" Capacity 46 Carts



5-1

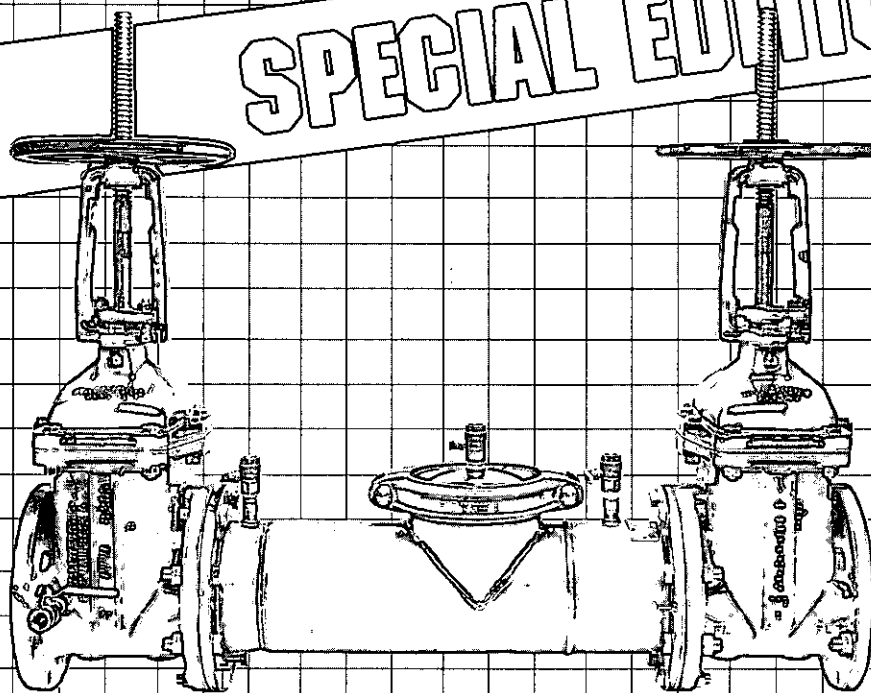
12-17-10
250 200 90

1-800-257-5002



AMES

SPECIAL EDITION



MODEL 2000SE
Double Check Assembly

MODEL 3000SE
Double Check Detector Check Assembly.

☐ **SHORTEST LAY LENGTH**

The Special Edition is shorter than any other competitive assembly. The Special Edition is perfect for space restricted retrofit installations.

☐ **DEPENDABILITY**

The long life 300 series Stainless Steel housing, along with the patented cam-check closure assembly, substantially reduces the need to service or repair the assembly. No special tools are required for servicing. The assembly is 100% lead free through the waterway.*

☐ **LIGHTWEIGHT**

The Special Edition weighs almost 400 lbs. less than the lightest competitive assembly and 1000 lbs. less than the heaviest competitive assembly.

☐ **LONG ON SAVINGS**

From engineering to purchasing, to installation, to servicing, to long term dependability, the Special Edition is extra long on savings.

☐ **APPLICATION**

The Ames Special Edition provides positive drip-tight closure against the reverse flow of non potable liquids caused by a cross connection. The SE can be used in irrigation systems, fire systems and other systems requiring low and intermediate hazard protection.

☐ **INSTALLATION**

Horizontal and vertical.

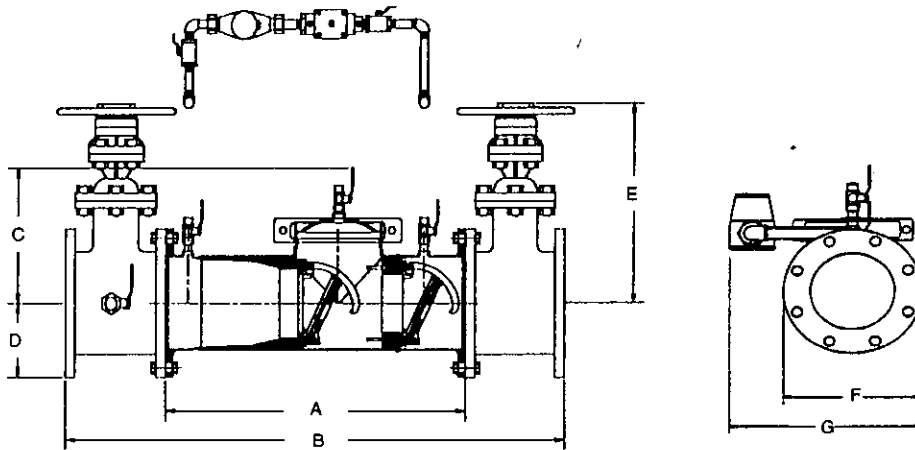
☐ **NATIONAL APPROVALS**

Contact factory for specific approvals.

* Patent # 5,046,525

AMES^{co}
FLUID CONTROL SYSTEMS

AMES SPECIAL EDITION



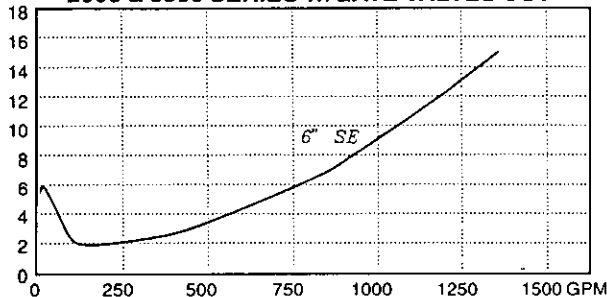
AMES SPECIAL EDITION - WEIGHTS & DIMENSIONS (Inches)

SIZE	A	B	C	D	OS & Y E (Open)	F	G	Wt. w/Gates		Wt. w/o Gates	
								2000SE	3000SE	2000SE	3000SE
6"	20"	43 1/2"	11 1/8"	5 1/2"	29 1/2"	11"	16 1/2"	328#	341#	58#	71#
8"	29 1/2"	52 1/2"	17 1/2"	6 3/4"	37 1/2"	13 1/2"	17 1/2"	540#	555#	120#	135#

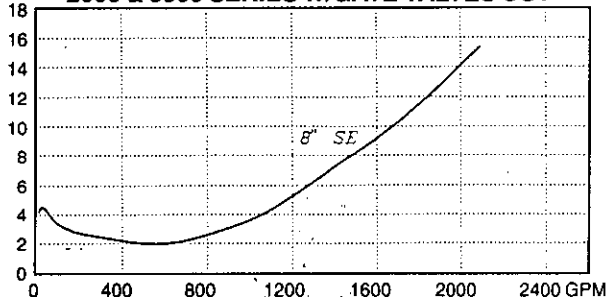
OPERATION

In normal flow conditions, the independently operating check valves remain closed until there is a demand for water. Each of the check valves are designed to open at approximately (1) PSI pressure differential in the direction of flow. At cessation of flow or under back pressure condition, both checks will close until the resumption of normal flow.

2000 & 3000 SERIES W/GATE VALVES OSY



2000 & 3000 SERIES W/GATE VALVES OSY



SPECIFICATIONS

The Special Edition shall consist of two independently operating spring loaded patented* cam-check valves, appropriate test cocks and inlet and outlet resilient wedge shut off valves. Each patented* cam-check shall be internally loaded and provide a positive drip tight closure against the reverse flow of liquid caused by back siphonage or back pressure. The modular cam-check includes a stainless steel spring and cam-arm, resilient faced disc and a replaceable seat. The body shall be manufactured from 300 series stainless steel and is 100% lead free through the waterway with a single two-bolt grooved style access cover. No special tools shall be required for servicing. Double Check shall be Ames 2000SE. Double Check Detector Check shall be 3000 SE.

PHYSICAL CHARACTERISTICS

- Size - 6" and 8"
- Rated working pressure - 175 psi
- Hydrostatic pressure - 350 psi
- Temperature range - 32° F - 110° F
- Flange dimensions in accordance with AWWA Class D
- All internal metal parts 300 series stainless steel
- Body material non-corrosive 300 series stainless steel (lead free) construction

* Patent # 5,046,525