



# CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

C-14-003514

## I. IDENTIFICATION

1. Proposed Work Site at: 74 Brick Plaza

2. Name of Owner in Fee: Men's Wearhouse  
Tel. (407) 469-5599 e-mail jason.kirby@expeditepermit.com  
Address 40650 Encyclopedia Cir. Freemont, CA 94538

3. Ownership in Fee: Public ☐ Private ☒ Municipality ☒ zip code

4. Principal Contractor: NOVA Construction Tel. 856-678-0400  
Address 8 High St. Suite D e-mail \_\_\_\_\_  
Mullica Hill, NJ 08062

License No. OR, if new home, Builder Reg. No. \_\_\_\_\_ Exp. Date \_\_\_\_\_

Home Improvement Contractor Registration No. or Exemption Reason \_\_\_\_\_

Federal Emp. ID No. 23-2615045 FAX: \_\_\_\_\_

5. Architect or Engineer Tricarico Architecture Contact Jason Kirby  
Address 502 Valley Rd. e-mail \_\_\_\_\_  
Tel. (407) 469-5599 FAX: (407) 469-3499

6. Responsible Person in Charge once Work has Begun STEVE HORNWELL  
Tel. 856-678-0400 FAX: 856-678-0400

## V. FEE SUMMARY (for office use only)

|                                      |                | Update     | Update      |
|--------------------------------------|----------------|------------|-------------|
| 1. Building                          | \$ <u>2150</u> |            |             |
| 2. Electrical                        | <u>1936</u>    |            |             |
| 3. Plumbing                          | <u>236</u>     |            |             |
| 4. Fire Protection                   |                | <u>100</u> | <u>2500</u> |
| 5. Elevator Devices                  |                |            |             |
| 6. Subtotal                          |                |            |             |
| 7. Less 20% for State Plan Review \$ |                |            |             |
| 8. Subtotal                          | \$             |            |             |
| 9. State Permit Surcharge Fee        | <u>128</u>     | <u>13</u>  |             |
| 10. Subtotal                         | \$             |            |             |
| 11. Cert. of Occupancy               |                |            | <u>16</u>   |
| 12. Other                            |                |            |             |
| 13. TOTAL                            | \$ <u>2613</u> | <u>113</u> | <u>1066</u> |

## VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories 1

2. Height of Structure 12 ft.

3. Area — Largest Floor 5,379 sq. ft.

4. New Building Area 0 sq. ft.

5. Volume of New Structure \_\_\_\_\_ cu. ft.

6. Max. Live Load \_\_\_\_\_

7. Max. Occupancy Load 148

8. If Industrialized Building: State Approved \_\_\_\_\_ HUD \_\_\_\_\_

9. Total Land Area Disturbed \_\_\_\_\_ sq. ft.

10. Flood Hazard Zone \_\_\_\_\_

11. Base Flood Elevation \_\_\_\_\_ ft.

12. Wetlands yes \_\_\_\_\_ no X

(office use only)

12  
15  
135  
80  
135

## IIa. PROPOSED WORK

- ☐ Minor Work ☐ New Building ☐ Addition ☐ Demolition
- ☐ Repair ☒ Alteration ☐ Renovation ☐ Reconstruction
- ☐ Asbestos Abat. -Subch. 8 ☐ Lead Hazard Abatement ☐ Radon Remediation ☐ Annual Permit

## IIb. SUBCODES

(Check all that apply)

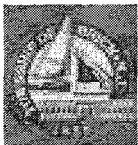
### FOR OFFICE USE ONLY (Optional)

| Est. Cost | Plans Rec'd by | Date Rec'd | Rejection Date | Approval Date | Re-viewer | Resubmission Dates Approval | Rejection | Re-viewer |
|-----------|----------------|------------|----------------|---------------|-----------|-----------------------------|-----------|-----------|
|           |                |            |                |               |           |                             |           |           |

## VII. DESCRIPTION OF BUILDING USE

### A. RESIDENTIAL (primary use)

1. State Specific Use: \_\_\_\_\_
2. Use Group, Proposed: Select Group \_\_\_\_\_
3. Change in Use Group, Indicate Present: Select Group \_\_\_\_\_
4. No. of dwelling units: Total Units Income-restricted  
Gained, Sale \_\_\_\_\_



Brick Township  
401 Chambersbridge Rd  
Brick, NJ 08723

Date Issued 01/05/2015  
Control Number C-14-003514  
Permit Number 14-3185  
Permit Issue Date 09/26/2014  
Certificate Number 14-3185

## Certificate

Construction Code Division

(Certificate of Approval)

### Identification

Work Site Location: 56 CHAMBERS BRIDGE RD. Actual Men's Warehouse Tenant Permit Brick Township, NJ Block: 671 Lot: 1.01 Qual: \_\_\_\_\_

Owner in Fee: FEDERAL REALTY INVESTMENT TRUST

Owner Address: 1626 EAST JEFFERSON ST ROCKVILLE NJ 20852

Telephone: \_\_\_\_\_

Contractor NOVA CONSTRUCTION INC

Address 8 High Street Suite D Mullica Hill NJ 08062

Telephone: (856) 678-0400 Fax: \_\_\_\_\_

License Number or Builders Registration Number: \_\_\_\_\_ Federal Emp. Number: \_\_\_\_\_

Home Warranty Number: \_\_\_\_\_

Type of Warranty Plan: ☐ State ☐ Private

Use Group: M Construction Classification: \_\_\_\_\_

Maximum Live Load: 0 Maximum Occupancy Load: 148

Description of Work/Use: TENANT FIT UP - MEN'S WAREHOUSE

Certificate Comments:

☐ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☒ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than or the owner will be subject to fine or order to vacate:  
This certificate has an expiration date of:  
**Conditions to be met:**

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work  
☐ Partial or limited time period (    years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

- ☐ Total removal of asbestos hazards in scope of work  
☐ Partial or limited time period (    years); see file

☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than:  
or the owner will be subject to fine or order to vacate:  
This certificate has an expiration date of:  
**Conditions to be met:**

*Daniel Newman Jr*

Construction Official

Fee: \$0.00

Check Number: \_\_\_\_\_

Collected By: \_\_\_\_\_



Brick Township  
401 Chambersbridge Rd  
Brick, NJ 08723

Date Issued 11/06/2014  
Control Number C-14-003514  
Permit Number 14-3185  
Permit Issue Date 09/26/2014  
Certificate Number 14-3185

## Certificate

Construction Code Division  
(Temporary Certificate of Occupancy)

### Identification

Work Site Location: 56 CHAMBERS BRIDGE RD. Actual Men's Warehouse Tenant Permit Brick Township, NJ Block: 671 Lot: 1.01 Qual: \_\_\_\_\_

Owner in Fee: FEDERAL REALTY INVESTMENT TRUST

Owner Address: 1626 EAST JEFFERSON ST ROCKVILLE NJ 20852

Telephone: \_\_\_\_\_

Contractor: NOVA CONSTRUCTION INC

Address: 8 High Street Suite D Mullica Hill NJ 08062

Telephone: (856) 678-0400 Fax: \_\_\_\_\_

License Number or Builders Registration Number: \_\_\_\_\_ Federal Emp. Number: \_\_\_\_\_

Home Warranty Number: \_\_\_\_\_

Type of Warranty Plan: ☐ State ☐ Private

Use Group: M Construction Classification: \_\_\_\_\_

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work/Use: TENANT FIT UP - MEN'S WAREHOUSE

Certificate Comments:

☐ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☐ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

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☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than or the owner will be subject to fine or order to vacate:  
This certificate has an expiration date of:  
**Conditions to be met:**

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work  
☐ Partial or limited time period (    years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

- ☐ Total removal of asbestos hazards in scope of work  
☐ Partial or limited time period (    years); see file

☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☒ **Temporary Certificate of Occupancy**

The following conditions must be met no later than: 01/05/2015 or the owner will be subject to fine or order to vacate:  
This certificate has an expiration date of: 01/05/2015  
**Conditions to be met:**

Needs Final Plumbing and Final Fire Inspections

*Yneeds + F*

Construction Official

Fee: \$0.00  
Check Number: \_\_\_\_\_  
Collected By: \_\_\_\_\_



# BUILDING SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 671 Lot 1.01 Qualification Code \_\_\_\_\_  
Work Site Location 74 Brick Plaza, Brick, NJ

Owner in Fee: Men's Warehouse

Tel. \_\_\_\_\_ e-mail jason.kirby@expeditepermit.com

Address 40650 Encyclopedia Cir. Freeport, CA 94538

Contractor: Nova Construction Tel. 856-678-0440 e-mail novacast@novacast.net

Address 8 High St. Suite D e-mail novacast@novacast.net

Contractor License No. or Builder Registration No. \_\_\_\_\_ Exp. Date \_\_\_\_\_

Home Improvement Contractor Registration No. or Exemption Reason \_\_\_\_\_

Federal Emp. ID No. 23-2615045 FAX: 856-678-0440

## JOB SUMMARY (Office Use Only)

### PLAN REVIEW

Date Initial

Dates (Month/Day)

Initial

☐ No Plans Required

Type: Footing

Failure

Approval

☒ All

Footing Bonding

Foundation

Initial

☐ Footings/Foundations

Slab

Frame

Initial

☐ Structural/Framework

Truss Sys./Bracing

Barrier-Free

Initial

☐ Interior

Insulation

Finishes -Base Layer

Initial

☐ Elec. ☐ Plumb. ☐ Fire ☐ Elevator

Finishes -Final

Mechanical

Initial

☐ Approved by: Nov

TCO

Other

Initial

☐ SUBCODE APPROVAL for CERTIFICATE

Barrier-Free

Initial

☐ SUBCODE APPROVAL for PERMIT

Barrier-Free

Initial

☐ Date: 11/06/14

Barrier-Free

Initial

☐ Approved by: Nov

Barrier-Free

Initial

☐ SUBCODE APPROVAL for CERTIFICATE

Barrier-Free

Initial

☐ SUBCODE APPROVAL for PERMIT

Barrier-Free

Initial

☐ Date: 11/06/14

Barrier-Free

Initial

☐ Approved by: Nov

Barrier-Free

Initial

☐ SUBCODE APPROVAL for CERTIFICATE

Barrier-Free

Initial

☐ SUBCODE APPROVAL for PERMIT

Barrier-Free

Initial

☐ Date: 11/06/14

Barrier-Free

Initial

☐ Approved by: Nov

Barrier-Free

Initial

☐ SUBCODE APPROVAL for CERTIFICATE

Barrier-Free

Initial

☐ SUBCODE APPROVAL for PERMIT

Barrier-Free

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☐ Date: 11/06/14

Barrier-Free

Initial

☐ Approved by: Nov

Barrier-Free

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☐ SUBCODE APPROVAL for CERTIFICATE

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☐ SUBCODE APPROVAL for PERMIT

Barrier-Free

Initial

☐ Date: 11/06/14

Barrier-Free

Initial

☐ Approved by: Nov

Barrier-Free

Initial

☐ SUBCODE APPROVAL for CERTIFICATE

Barrier-Free

Initial

☐ SUBCODE APPROVAL for PERMIT

Barrier-Free

Initial

☐ Date: 11/06/14

Barrier-Free

Initial

## 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.

Sign here:

Print name here: Steve Hovner

## D. TECHNICAL SITE DATA

### DESCRIPTION OF WORK

Interior Build-out of an existing retail tenant space

ductwork

actual men's warehouse

### TYPE OF WORK:

☐ New Building

☐ Addition

☐ Rehabilitation

☐ Roofing

☐ Siding

☐ Fence \_\_\_\_\_ Height (exceeds 6') \_\_\_\_\_ Sq. Ft.

☐ Sign \_\_\_\_\_ Height (exceeds 6') \_\_\_\_\_ Sq. Ft.

☐ Pool \_\_\_\_\_ Height (exceeds 6') \_\_\_\_\_ Sq. Ft.

☐ Retaining Wall \_\_\_\_\_ Height (exceeds 6') \_\_\_\_\_ Sq. Ft.

☐ Asbestos Abatement Subchapter 8

☐ Lead Haz. Abatement NJAC 5:17

☐ Radon Remediation

☒ Other Int. Remod

☐ Demolition

Administrative Surcharge \$ \_\_\_\_\_

Minimum Fee \$ \_\_\_\_\_

State Permit Surcharge Fee \$ \_\_\_\_\_

TOTAL FEE \$ \_\_\_\_\_

10/31



# PLUMBING SUBCODE TECHNICAL SECTION



update + E

Date Received  
Control #

11/6/14

Date Issued  
Permit #

14-3185 + F

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 671 Lot 1.01 Qualification Code 08783

Work Site Location Brick N 5 08783

Owner in Fee: Federal Realty Investment Trust

Tel. (414) 419-1321 e-mail

Address 50 E Wynwood Rd Suite 200 Wynwood PH 19094 Zip code 33201

Contractor: L S Mechanical street 10711 Tel. (722) 802 9727

Contractor License No. 10711 Exp. Date

Home Improvement Contractor Registration No. or Exemption Reason (if applicable):

Federal Emp. ID No. 22-3527 405 FAX: (722) 802 9327

B. PLUMBING CHARACTERISTICS

Use Group Present Proposed

Building Sewer Size  Public Sewer  Private Septic

Water Service Size  Public Water  Private Well

Est. Cost of Plumbing Work \$ 3000.00

JOB SUMMARY (Office Use Only)

| PLAN REVIEW                                                                                                                |  | INSPECTIONS     |         | Dates (Month/Day) |          |
|----------------------------------------------------------------------------------------------------------------------------|--|-----------------|---------|-------------------|----------|
|                                                                                                                            |  | Type:           | Failure | Failure           | Approval |
| <input type="checkbox"/> No Plans Required                                                                                 |  | Slab            |         |                   |          |
| <input type="checkbox"/> Partial-Under-slab Utilities Approved                                                             |  | Rough           |         |                   |          |
| Date: <u></u> Approved by: <u></u>                                                                                         |  | Water           |         |                   |          |
| <input type="checkbox"/> Plumbing Plans Approved                                                                           |  | Sewer           |         |                   |          |
| Date: <u></u> Approved by: <u></u>                                                                                         |  | Fixtures        |         |                   |          |
| Joint Plan Review Required:                                                                                                |  | Gas Equipment   |         |                   |          |
| <input type="checkbox"/> Bldg. <input type="checkbox"/> Elec. <input type="checkbox"/> Fire <input type="checkbox"/> Elev. |  | Gas Piping      |         |                   |          |
| SUBCODE APPROVAL FOR PERMIT                                                                                                |  | LP Gas Tank     |         |                   |          |
| Date: <u>11-3-14</u>                                                                                                       |  | Fuel Oil Piping |         |                   |          |
| Approved by: <u>[Signature]</u>                                                                                            |  | Solar           |         |                   |          |
| SUBCODE APPROVAL FOR CERTIFICATE                                                                                           |  | TCO             |         |                   |          |
| Date: <u>11-3-14</u>                                                                                                       |  | Final           |         |                   |          |
| Approved by: <u>[Signature]</u>                                                                                            |  |                 |         |                   |          |

## C. CERTIFICATION IN LIEU OF OATH

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

Applicant sign/Contractor sign and seal here: [Signature]

Print name here: Thomas P. Seaman III

☒ Licensed Plumbing Contractor ☐ Exempt Applicant

## D. TECHNICAL SITE DATA

DESCRIPTION OF WORK  
REPLACE STEAM BOILER

| QTY. | FIXTURE/EQUIPMENT        | FEE (Office Use Only) |
|------|--------------------------|-----------------------|
|      | Water Closet             | \$                    |
|      | Urinal/Bidet             |                       |
|      | Bath Tub                 |                       |
|      | Lavatory                 |                       |
|      | Shower                   |                       |
|      | Floor Drain              |                       |
|      | Sink                     |                       |
|      | Dishwasher               |                       |
|      | Drinking Fountain        |                       |
|      | Washing Machine          |                       |
|      | Hose Bibb                |                       |
|      | Water Heater             |                       |
|      | Fuel Oil Piping          |                       |
|      | Gas Piping               |                       |
|      | LP Gas Tank              |                       |
|      | Steam Boiler             |                       |
|      | Hot Water Boiler         |                       |
|      | Sewer Pump               |                       |
|      | Interceptor/Separator    |                       |
|      | Backflow Preventer       |                       |
|      | Greasetrap               |                       |
|      | Sewer Connection         |                       |
|      | Water Service Connection |                       |
|      | Stacks                   |                       |
|      | Other                    |                       |

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$



# PLUMBING SUBCODE TECHNICAL SECTION



**A. IDENTIFICATION - APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO. 1-800-272-1000**

Block 671 Lot 1.01 Qualification Code \_\_\_\_\_

Work Site Location: 56 CHAMBERS BRIDGE RD. Actual Men's Warehouse Tenant Permit Brick Township, NJ

Owner in Fee: FEDERAL REALTY INVESTMENT TRUST

Address 1626 EAST JEFFERSON ST ROCKVILLE NJ 0852

Email \_\_\_\_\_

Tel. \_\_\_\_\_

Contractor: JS Mechanical Corp.

Address 51 Lafayette Street Carteret NJ 07008

Email \_\_\_\_\_

Tel. \_\_\_\_\_

Fax \_\_\_\_\_

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): \_\_\_\_\_

Contractor License No. \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Federal Employee No. \_\_\_\_\_

## B. PLUMBING CHARACTERISTICS

Use Group Present \_\_\_\_\_ Proposed M

Building Sewer Size \_\_\_\_\_ ☐ Public Sewer ☐ Private Septic

Water Service Size \_\_\_\_\_ ☐ Public Water ☐ Private Well

Estimated Cost of Plumbing Work \$10,000

## JOB SUMMARY (Office Use Only)

### PLAN REVIEW

☐ No Plan Required

Partial Underslab Utilities Approved

Date: \_\_\_\_\_ by: \_\_\_\_\_

☐ Plumbing Plans Approved

Date: \_\_\_\_\_

Approved by: \_\_\_\_\_

Joint Plan Review Required

☐ Building ☐ Electrical

☐ Fire ☐ Elevator

SUBCODE APPROVAL for PERMIT

Date: \_\_\_\_\_ by: \_\_\_\_\_

SUBCODE APPROVAL for CERTIFICATE

☒ CO ☐ CCO ☐ CA

Date: 12-2-19

Approved by: [Signature]

### INSPECTIONS

Type: \_\_\_\_\_ Failure \_\_\_\_\_ Approval \_\_\_\_\_ Initial \_\_\_\_\_

Slab \_\_\_\_\_ Failure \_\_\_\_\_ Approval 9-30-19 Initial [Signature]

Rough \_\_\_\_\_ Failure \_\_\_\_\_ Approval \_\_\_\_\_ Initial \_\_\_\_\_

Water \_\_\_\_\_ Failure \_\_\_\_\_ Approval \_\_\_\_\_ Initial \_\_\_\_\_

Sewer \_\_\_\_\_ Failure \_\_\_\_\_ Approval \_\_\_\_\_ Initial \_\_\_\_\_

Fixtures \_\_\_\_\_ Failure \_\_\_\_\_ Approval \_\_\_\_\_ Initial \_\_\_\_\_

Gas Equipment \_\_\_\_\_ Failure \_\_\_\_\_ Approval \_\_\_\_\_ Initial \_\_\_\_\_

Gas Piping \_\_\_\_\_ Failure \_\_\_\_\_ Approval \_\_\_\_\_ Initial \_\_\_\_\_

LP Gas Tank \_\_\_\_\_ Failure \_\_\_\_\_ Approval \_\_\_\_\_ Initial \_\_\_\_\_

Fuel Oil Piping \_\_\_\_\_ Failure \_\_\_\_\_ Approval \_\_\_\_\_ Initial \_\_\_\_\_

Solar \_\_\_\_\_ Failure \_\_\_\_\_ Approval \_\_\_\_\_ Initial \_\_\_\_\_

TCO \_\_\_\_\_ Failure \_\_\_\_\_ Approval \_\_\_\_\_ Initial \_\_\_\_\_

Final \_\_\_\_\_ Failure \_\_\_\_\_ Approval 10-22-19 Initial [Signature]

Date Received 08/11/2014  
Control # C-14-003514  
Date Issued 09/26/2014  
Permit # 14-3185

**C. CERTIFICATION IN LIEU OF OATH**  
I hereby certify that I am the (agent of) owner of the record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature and Printed Name

## D. TECHNICAL SITE DATA (List of all fixtures)

| NO. | FIXTURE/EQUIPMENT        | FEE (Office Use Only) |
|-----|--------------------------|-----------------------|
| 2   | Water Closet             | \$30                  |
|     | Urinal/Bidet             |                       |
| 1   | Bath Tub                 |                       |
|     | Lavatory                 | \$15                  |
|     | Shower                   |                       |
| 2   | Floor Drain              | \$30                  |
| 2   | Sink                     | \$30                  |
|     | Dishwasher               |                       |
| 2   | Drinking Fountain        | \$30                  |
|     | Washing Machine          |                       |
| 1   | Hose Bibb                |                       |
|     | Water Heater             | \$100                 |
|     | Fuel Oil Piping          |                       |
|     | Gas Piping               |                       |
|     | LP Gas Tank              |                       |
|     | Steam Boiler             |                       |
|     | Hot Water Boiler         |                       |
|     | Sewer Pump               |                       |
|     | Interceptor/Separator    |                       |
|     | Backflow Preventor       |                       |
|     | Greasetrap               |                       |
|     | Sewer Connector          |                       |
|     | Water Service Connection |                       |
|     | Stacks                   |                       |
|     | Other <u>Plan Review</u> | \$1                   |
|     | Other _____              |                       |
|     | Other _____              |                       |
|     | Other _____              |                       |

Administrative Surcharge

Minimum Fee

State Permit Surcharge Fee \$17

TOTAL FEE \$263



# ELECTRICAL SUBCODE TECHNICAL SECTION



**A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO. 1-800-272-1000.**  
 Block 607 Lot 1.01 Qualification Code \_\_\_\_\_  
 Work Site Location 74 Brick Plaza, Brick, NJ

Owner in Fee: Men's Wearhouse

Tel. (407) 469-5599

e-mail jason.kirby@expeditepermit.com

Address 40650 Encyclopeda Cir.

Freeport, CA

94538

Contractor:

Travis F. Hepatic & Co.

Freemont, CA

94538

Address 35 Railroad Ave

e-mail

Tel.

732 672-0660

Contractor License No.

EC 14716

Exp. Date

03/15

Home Improvement Contractor Registration No. or Exemption Reason

Federal Emp. ID No.

FAX:

**B. ELECTRICAL CHARACTERISTICS**

Use Group Present Merc

Proposed Merc

[ ] Pole/Pad #

[ ] Temporary

[ ] Other

Building Occupied as Retail Store

Utility Co.

Est. Cost of Elec. Work \$ 6,500

## JOB SUMMARY (Office Use Only)

### PLAN REVIEW

[ ] No Plans Required

[ ] Partial -Under-slab Utilities Approved

Date: \_\_\_\_\_ Approved by: \_\_\_\_\_

[ ] Electric Plans Approved

Date: 8/13/14 Approved by: [Signature]

Joint Plan Review Required:

[ ] Bldg. [ ] Plumb. [ ] Fire. [ ] Elev.

SUBCODE APPROVAL for PERMIT

Date: 8/13/14

Approved by: [Signature]

SUBCODE APPROVAL for CERTIFICATE

Date: 10/31/14

Approved by: [Signature]

Temp. Cut-In-Card Date Issued

Final Cut-In-Card Date Issued

Annual Pool Inspection

Date of Grounding and Bonding

Certification

U.C.C. F.120 (rev. 11/09)

Internet version

Applicant: When submitting this form to your Local Construction Code Enforcement Office, please provide one original plus three photocopies.

## 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 and perform the work listed on this application.  
 Applicant sign/Contractor sign and seal here:

Print name here:

Travis F. Hepatic

Travis F. Hepatic

Travis F. Hepatic

Travis F. Hepatic

Travis F. Hepatic

Travis F. Hepatic

Travis F. Hepatic

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Travis F. Hepatic

Travis F. Hepatic

Date Received

11-31-85

Control #

Date Issued

Permit #

9/26/14

## D. TECHNICAL SITE DATA

### DESCRIPTION OF WORK:

Electrical for Interior Remodel

QTY SIZE ITEMS

205 31 Lighting Fixtures

3 Receptacles

2 Switches

2 Detectors

2 Light Poles

2 Motors—Fract. HP

2 Emergency & Exit Lights

2 Communications Points

2 Alarm Devices/F.A.C. Panel

246

TOTAL NUMBERS

Pool Permit/with UW Lights

Storable Pool/Spa/Hot Tub

KW Elec. Range/Receptacle

KW Oven/Surface Unit

KW Elec. Water Heater

KW Elec. Dryer/Receptacle

KW Dishwasher

HP Garbage Disposal

KW Central A/C Unit

HP/KW Space Heater/Air Handler

KW Baseboard Heat

HP Motors 1/+ HP

KW Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KV Elec. Sign/Outline Light

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$

# **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(f)1.ix:

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 Uniform Construction Code, N.J.A.C. 5:23-2.15(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 NOVA construction Millwork Inc. STEVE HORWELL  
Address 8 High St. Suite D  
Mullica Hill, NJ 08062  
Telephone 856-7678-2400  
Signature [Signature]

## **III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.**





Jan 05 15:03:57p Steve  
Jan. 5. 2015 10:14AM

856-678-0404 p.1  
No. 5920 P. 1



# APPLICATION FOR CERTIFICATE

Date Received 08/11/2014  
Date Permit Issued 09/26/2014  
Control # C-14-003514  
Permit # 14-3185  
Date Issued

## IDENTIFICATION

Block 671 Lot 1.01 Qualifier \_\_\_\_\_  
Work Site Location 56 CHAMBERS BRIDGE RD. Actual Men's Contractor NOVA CONSTRUCTION INC  
Warehouse Tenant Permit Brick Township, NJ Address 8 High Street Suite D Mullica Hill, NJ 08062  
Owner in Fee FEDERAL REALTY INVESTMENT TRUST Telephone (856) 678-0400  
1628 EAST JEFFERSON ST. ROCKVILLE NJ Lic. No. or Bids. Reg. No. \_\_\_\_\_  
20852 Federal Employee No. \_\_\_\_\_  
Telephone \_\_\_\_\_

## ACTION

- ☐ CERTIFICATE OF OCCUPANCY  
☐ CERTIFICATE OF CONTINUED OCCUPANCY  
☐ LEAD HAZARD ABATEMENT CERTIFICATE OF CLEARANCE  
☐ TEMPORARY CERTIFICATE OF OCCUPANCY

USE GROUP \_\_\_\_\_ Previous M Current

FINAL COST OF CONSTRUCTION: \$ 71500  
(Include value of any new structure, all on-site improvements, built-in furnishings and fixtures and all the integral equipment exclusive of process or manufacturing equipment.)

A set of "As Built" or amended drawings is required if the building or structure deviates from the approved plans filed with the construction permit. Use space below to describe any deviations from approved plans:

If you are requesting a Temporary Certificate of Occupancy, please explain why in the space below.

## DESCRIPTION OF WORK/USE:

Alteration TENANT FIT UP - MEN'S WAREHOUSE

I hereby attest that to the best of my knowledge, the completed project meets the conditions of construction permit and all prior approvals, and all work has been completed substantially in accordance with the code and with those portions of the plans and specifications controlled by the code, with any substantial deviations noted. Incomplete items listed on a Temporary Certificate of Occupancy will be complete by the date on the

SIGNED: \_\_\_\_\_

Owner/Agent

☐ OWNER

☒ AGENT

Men's wearhouse

56 Chambers  
Bridge Rd.

TOWNSHIP OF BRICK  
DEPARTMENT OF INSPECTIONS

# OCCUPANCY

|               |     |          |
|---------------|-----|----------|
| OCCUPANT LOAD | 148 |          |
| LIVE LOAD     |     | P. S. F. |
| FIRE GRADING  |     | HOURS    |
| USE GROUP     | M   |          |



# FIRE PROTECTION SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 001 Lot 1.01 Qualification Code       

Work Site Location MEN'S WAREHOUSE

56 CHAMBER ROAD BRICK, NJ 08723

Owner In Fee: MEN'S WAREHOUSE

Tel. (407) 469-5599

Address 40650 ENCYCLOPEDIA CIR. e-mail jason.kirby@expeditepermit.com

Contractor: NOVA CONSTRUCTION FREEMONT, CA 94538

Address 8 HIGH ST. MULICA HILL, NJ 08062 Tel. (856) 678-0400

Fire Protection Equipment, NJ Div of Fire Safety Permit No. P01299

Fire Alarm Contractor No. 34BF000377

Home Improvement Contractor Registration No. or Exemption Reason        Exp. Date 01/31/2017

Federal Emp. ID No.        FAX:       

## B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present M Proposed M

Constr. Class: Present 11B Proposed 11B

Heating System: ☐ New OR ☐ Modification to Existing

OR ☐ Conversion OR ☐ Replacement

Fuel Type: ☐ Gas ☐ Oil ☐ Electric ☐ Solar

Location: ☐ Other       

Total Cost of Fire Protection Work \$ 7,750

Location of Main Control Valve:       

Fire Alarm System: ☐ New OR ☒ Existing

Location of Panel: ELECTRIC ROOM

Fire Suppression/Standpipe System:       

☐ New OR ☐ Existing

Location of Main Control Valve:       

Job Summary (Office Use Only)

PLAN REVIEW

☐ No Plans Required

☐ Partial - Under-slab Utilities Approved

Date: 10/28/14 Approved by:       

Joint Plan Review Required:       

☐ Bldg. ☐ Elec. ☐ Plumb. ☐ Elev.

SUBCODE APPROVAL for PERMIT

Date: 10/28/14 Approved by:       

SUBCODE APPROVAL for CERTIFICATE

Date: 10/28/14 Approved by:       

U.C.C. F-140 (rev. 02/11) Applicant: When submitting this form to your local jurisdiction Code Enforcement Office, please provide one internet version

## 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.

Applicant/Contractor sign here:

Print name here: THOMAS CAPLE

☒ Certified Contractor ☐ Exempt Applicant

DESCRIPTION OF WORK:

Water Supply Source

Method of Alarm/Suppression System Supervision

Flammable/Combustible Tanks

Alarm Systems

☒ System

☐ 110v Interconnected

☐ CO Detectors/110v

Alarm Devices (i.e., smoke, heat, pulls, water/flow)

Supervisory Devices (i.e., tamper, low/high air)

Signaling Devices (i.e., horn/strobes, bells)

Other Devices

TOTAL

Suppression Systems

Fire Pump        GPM Type       

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Pre-engineered Systems

Wet Chemical

Dry Chemical

CO<sub>2</sub> Suppression

Foam Suppression

FM200 Suppression

Other

Other Systems

Kitchen Hood Exhaust System

Smoke Control System

Fuel-Fired Appliances ☐ Gas ☐ Oil ☐ Solid

Fireplace Venting/Metal Chimney

Other

Date Received Control #

Date Issued Permit #

Digitally signed by Thomas Caple

9-26-14

14-318544

C-14-003514 +4

State Permit Surcharge Fee \$

Minimum Fee \$

Administrative Surcharge \$

TOTAL FEE \$



10/21/14 W - Frame Reg

Need Update

2 walls not const. as planned -

10/21/14 W - Frame Appnd

By O.C. Brace ~~to~~ wall as designed -

10/15/14 W - OC Appnd -

Note Access for water heater is to

Remove HVAC Register?

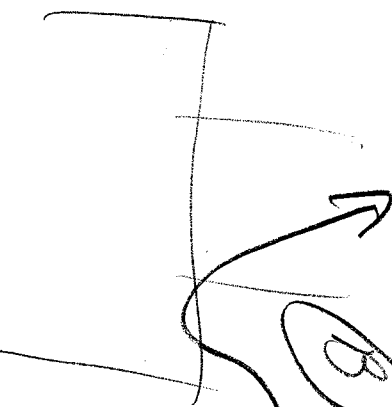
Check Code

\*10-30-14 W - Rec. TCO 30 Days - (Merchandise Only)

1) Empty light out

2) Finish installation of fixtures -

3) Tech



10-22-14

OK

Estimate of

water cost

update for steam recovery unit

⤴  
P Tech

10-15-14 ABV CGIING 120-208 0017. NO ALARM.  
YET.

✓ (E) tech

11-19-14

MS Manual

✓  
Ptech + F



# Independence

FIRE SPRINKLER COMPANY, LLC

September 8, 2014

Milex Construction  
1360 Adams Road  
Bensalem, PA 19020

Attn: Mr. Mike DeMaio

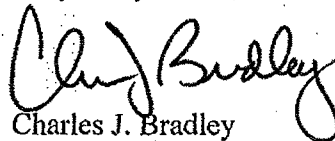
RE: Men's Warehouse – Two new tenant  
Creation of Shell Space  
Brick Plaza Shopping Center  
Brick, New Jersey

Dear Mike,

This letter is to certify that the work completed and the fire sprinkler modifications performed at the above-mentioned location conforms to all state and local codes and the NFPA 13 standard for the installation of sprinkler systems. The sprinkler system on this floor was left operable and in service.

Please see our attached contractor's material and test certificate.

Very Truly Yours,



Charles J. Bradley  
Project Manager  
New Jersey License #P0313



|                   |                                            |       |                   |            |              |      |                               |       |                                      |            |                               |    |
|-------------------|--------------------------------------------|-------|-------------------|------------|--------------|------|-------------------------------|-------|--------------------------------------|------------|-------------------------------|----|
| DRY VALVE         |                                            |       |                   | Q.O.D.     |              |      |                               |       |                                      |            |                               |    |
| MAKE              |                                            | MODEL |                   | SERIAL NO. |              | MAKE |                               | MODEL |                                      | SERIAL NO. |                               |    |
|                   | TIME TO TRIP<br>THROUGH TEST<br>CONNECTION |       | WATER<br>PRESSURE |            | AIR PRESSURE |      | TRIP POINT<br>AIR<br>PRESSURE |       | TIME WATER<br>REACHED TEST<br>OUTLET |            | ALARM<br>OPERATED<br>PROPERLY |    |
|                   | MIN                                        | SEC   | PSI               |            | PSI          |      | PSI                           |       | MIN                                  | SEC        | YES                           | NO |
| WITHOUT<br>Q.O.D. |                                            |       |                   |            |              |      |                               |       |                                      |            |                               |    |
| WITH<br>Q.O.D.    |                                            |       |                   |            |              |      |                               |       |                                      |            |                               |    |
| IF NO, EXPLAIN    |                                            |       |                   |            |              |      |                               |       |                                      |            |                               |    |

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------|------------|---------------------------------|
| DELUGE AND<br>PREACTION<br>VALVES<br><br><b>N/A</b> | OPERATION <input type="checkbox"/> PNEUMATIC <input type="checkbox"/> ELECTRIC <input type="checkbox"/> HYDRAULIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
|                                                     | PIPING SUPERVISED <input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                   |                              | DETECTING MEDIA SUPERVISED <input type="checkbox"/> YES <input type="checkbox"/> NO |                                                                                           |                                               |            |                                 |
|                                                     | DOES THE VALVE OPERATE FROM THE MANUAL TRIP, REMOTE OR BOTH <input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
|                                                     | IS THERE AN ACCESSIBLE FACILITY IN EACH CIRCUIT FOR TESTING <input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
|                                                     | MAKE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              | MODEL                                                                                             |                              | DOES EACH CIRCUIT OPERATE SUPERVISION LOSS ALARM?                                   |                                                                                           | DOES EACH CIRCUIT OPERATE EACH VALVE RELEASE? |            | MAXIMUM TIME TO OPERATE RELEASE |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                                                                   | YES NO                       |                                                                                     | YES NO                                                                                    |                                               | MIN SEC    |                                 |
| PRESSURE<br>REDUCING VALVE<br>TEST                  | LOCATION & FLOOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MAKE & MODEL | SETTING                                                                                           | STATIC PRESSURE              |                                                                                     | RESIDUAL PRESSURE (FLOWING)                                                               |                                               | FLOW RATE  |                                 |
|                                                     | <b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                   | INLET (PSI) OUTLET (PSI)     |                                                                                     | INLET (PSI) OUTLET (PSI)                                                                  |                                               | FLOW (GPM) |                                 |
| TEST DESCRIPTION                                    | <p><b>HYDROSTATIC:</b> HYDROSTATIC TESTS SHALL BE MADE AT NOT LESS THAN 200 PSI (13.6 BARS) FOR 2 HOURS OR 50 PSI (3.4 BARS) ABOVE STATIC PRESSURE IN EXCESS OF 150 PSI (10.2 BARS) FOR 2 HOURS. DIFFERENTIAL DRY-PIPE VALVE CLAPPERS SHALL BE LEFT OPEN DURING THE TEST TO PREVENT DAMAGE. ALL ABOVE GROUND PIPING LEAKAGE SHALL BE STOPPED.</p> <p><b>PNEUMATIC:</b> ESTABLISHED 40 PSI (2.7 BARS) AIR PRESSURE AND MEASURE DROP, WHICH SHALL NOT EXCEED 1 1/2 PSI (0.1 BARS) IN 24 HOUR. TEST PRESSURE TANKS AT NORMAL WATER LEVEL AND AIR PRESSURE AND MEASURE AIR PRESSURE DROP, WHICH SHALL NOT EXCEED 1 1/2 PSI (0.1 BARS) IN 24 HOURS.</p> |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
| TESTS                                               | ALL PIPING HYDROSTATICALLY TESTED AT <u>200</u> PSI FOR 2 HOURS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                                                                   |                              | IF NO, EXPLAIN                                                                      |                                                                                           |                                               |            |                                 |
|                                                     | DRY PIPING PNEUMATICALLY TESTED <input type="checkbox"/> YES <input type="checkbox"/> NO<br>EQUIPMENT OPERATES PROPERLY <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
|                                                     | DO YOU CERTIFY AS THE SPRINKLER CONTRACTOR THAT ADDITIVES AND CORROSIVE CHEMICALS, SODIUM SILICATE OR DERIVATIVES OF SODIUM SILICATE, BRINE, OR OTHER CORROSIVE CHEMICALS WERE NOT USED FOR TESTING SYSTEMS OR STOPPING LEAKS?                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
|                                                     | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
|                                                     | DRAIN TEST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              | READING OF WATER GAUGE LOCATED NEAR WATER SUPPLY TEST CONNECTIONS: <u>90</u> PSI ( <u> </u> BARS) |                              |                                                                                     | RESIDUAL PRESSURE WITH VALVE IN TEST CONNECTION OPEN WIDE: <u>82</u> PSI ( <u> </u> BARS) |                                               |            |                                 |
|                                                     | UNDERGROUND MAINS AND LEAD IN CONNECTIONS TO SYSTEM FLUSHED BEFORE CONNECTION MADE TO SPRINKLER PIPING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                                                                   |                              |                                                                                     | IF NO, EXPLAIN                                                                            |                                               |            |                                 |
|                                                     | VERIFIED BY COPY OF THE U FORM NO. 85B <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                   |                              |                                                                                     | EXISTING                                                                                  |                                               |            |                                 |
|                                                     | FLUSHED BY INSTALLER OF UNDERGROUND SPRINKLER PIPING <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
|                                                     | IF POWDER DRIVEN FASTENERS ARE USED IN CONCRETE, <b>N/A</b> HAS REPRESENTATIVE SAMPLE TESTING BEEN SATISFACTORILY COMPLETED? <input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                                                                                                   |                              |                                                                                     | IF NO, EXPLAIN <b>N/A</b>                                                                 |                                               |            |                                 |
| BLANK TESTING GASKETS                               | NUMBER USED: <u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              | LOCATIONS                                                                                         |                              |                                                                                     | NUMBER REMOVED                                                                            |                                               |            |                                 |
| WELDING                                             | WELDING PIPING <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
|                                                     | IF YES,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
|                                                     | DO YOU CERTIFY AS THE SPRINKLER CONTRACTOR THAT WELDING PROCEDURES COMPLY WITH THE REQUIREMENTS OF AT LEAST AWS B2.1? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
|                                                     | DO YOU CERTIFY THAT THE WELDING WAS PERFORMED BY WELDERS QUALIFIED IN COMPLIANCE WITH THE REQUIREMENTS OF AT LEAST AWS B2.1? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
| CUTOUTS (DISCS)                                     | DO YOU CERTIFY THAT WELDING WAS CARRIED OUT IN COMPLIANCE WITH A DOCUMENTED QUALITY CONTROL PROCEDURE TO ENSURE THAT ALL DISCS ARE RETRIEVED, THAT ALL OPENINGS IN THE PIPE ARE SMOOTH, THAT SLAG AND OTHER WELDING RESIDUE ARE REMOVED, AND THAT THE INTERNAL DIAMETERS OF PIPING ARE NOT PENETRATED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                         |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
|                                                     | DO YOU CERTIFY THAT YOU HAVE A CONTROL FEATURE TO ENSURE THAT ALL CUTOUTS (DISCS) ARE RETRIEVED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
| HYDRAULIC DATA NAMEPLATE                            | NAME PLATE PROVIDED <b>EXISTING</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                                                                                                   |                              | IF NO EXPLAIN                                                                       |                                                                                           |                                               |            |                                 |
| REMARKS                                             | DATE LEFT IN SERVICE WITH ALL CONTROL VALVES OPEN <u>9/8/14</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
| SIGNATURES                                          | NAME OF SPRINKLER CONTRACTOR <b>INDEPENDENCE FIRE SPRINKLER COMPANY, LLC.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
|                                                     | TESTS WITNESSED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                                                                                                   |                              |                                                                                     |                                                                                           |                                               |            |                                 |
|                                                     | FOR PROPERTY OWNER (SIGNED)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                                                                                                   |                              | TITLE                                                                               |                                                                                           | DATE                                          |            |                                 |
| FOR INSTALLING CONTRACTOR (SIGNED)                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                                                                   | TITLE <u>Project Manager</u> |                                                                                     | DATE <u>9/8/14</u>                                                                        |                                               |            |                                 |

# INSPECTION AND TESTING FORM

DATE: 10/21/2014  
TIME:

## Service Organization

NAME: Electronic Security Solutions  
ADDRESS: 101 East Laurel Ave  
Cheltenham, PA 19012  
REPRESENTATIVE: Chris H.  
LICENSE NO: 34BF00037700  
TELEPHONE: 215-277-5248

## Property Name (User)

NAME: Federal Realty  
ADDRESS: 56 Chambersbridge Road  
Brick, NJ 08723  
OWNER CONTACT: Judy Maurer  
TELEPHONE: 215-852-6405

## MONITORING AGENCY

CONTACT: COPS  
TELEPHONE: 18006332677  
MONITORING ACCOUNT REF NO: 379-1127

## APPROVING AGENCY

CONTACT:  
TELEPHONE:

## TYPE TRANSMISSION

- ☐ - Mc Cullogh
- ☐ - Multiplex
- ☒ - Digital
- ☐ - Reverse Priority
- ☐ - RF
- ☐ - Other (Specify)

## SERVICE

- ☐ - Weekly
- ☐ - Monthly
- ☐ - Quarterly
- ☐ - Semi Annually
- ☒ - Annually
- ☐ - Other (Specify)

PANEL MANUFACTURER: EST MODEL NO: IO-500  
CIRCUIT STYLES: Class B  
NO. OF CIRCUITS: 1-Addressable / 1-NAC  
SOFTWARE REV:  
LAST DATE THAT SYSTEM HAD ANY SERVICE PERFORMED: 10/21/2014

LAST DATE THAT ANY SOFTWARE OR CONFIGURATION WAS REVISED: 10/21/2014

## ALARM INITIATING DEVICES AND CIRCUIT INFORMATION

| QTY<br>OF | CIRCUIT<br>STYLE |                      |
|-----------|------------------|----------------------|
| 4         | B                | MANUAL STATIONS      |
| 1         | B                | PHOTO DETECTORS      |
| 0         |                  | ION DETECTORS        |
| 3         | B                | DUCT DETECTORS       |
| 0         |                  | HEAT DETECTORS       |
| 2         | B                | WATERFLOW SWITCHES   |
| 4         | B                | SUPERVISORY SWITCHES |
| 0         |                  | OTHER (SPECIFY)      |



### NOTIFICATIONS ARE MADE:

MONITORING ENTITY  
BUILDING OCCUPANTS  
BUILDING MANAGEMENT  
OTHER (SPECIFY)  
AHJ NOTIFIED OF ANY IMPAIRMENTS

### PRIOR TO ANY TESTING

| YES                                 | NO | WHO | TIME |
|-------------------------------------|----|-----|------|
| <input checked="" type="checkbox"/> |    |     |      |
| <input checked="" type="checkbox"/> |    |     |      |
|                                     |    |     |      |
|                                     |    |     |      |
|                                     |    |     |      |

### SYSTEM TESTS AND INSPECTIONS

| TYPE                    | VISUAL                              | FUNCTIONAL                          | COMMENTS |
|-------------------------|-------------------------------------|-------------------------------------|----------|
| CONTROL PANEL           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |
| INTERFACE EQ            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |
| LAMPS/LED               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |
| FUSES                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |
| PRIMARY POWER SUPPLY    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |
| TROUBLE SIGNALS         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |
| DISCONNECT SWITCHES     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |
| GROUND FAULT MONITORING | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |

### SECONDARY POWER

| TYPE                  | VISUAL                              | FUNCTIONAL                          | COMMENTS |
|-----------------------|-------------------------------------|-------------------------------------|----------|
| BATTERY CONDITION     | <input checked="" type="checkbox"/> |                                     |          |
| LOAD VOLTAGE          |                                     |                                     |          |
| DISCHARGE TEST        |                                     |                                     |          |
| CHARGER TEST          |                                     |                                     |          |
| SPECIFIC GRAVITY      |                                     |                                     |          |
| TRANSIENT SUPPRESSORS |                                     |                                     |          |
| REMOTE ANNUNCIATORS   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |

### NOTIFICATION APPLIANCES

|               | VISUAL                              | FUNCTIONAL                          | COMMENTS |
|---------------|-------------------------------------|-------------------------------------|----------|
| AUDIBLE       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |
| VISUAL        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |
| SPEAKERS      |                                     |                                     |          |
| VOICE CLARITY |                                     |                                     |          |

### INITIATING AND SUPERVISORY DEVICE TESTS AND INSPECTIONS

| LOC & S/N | DEVICE TYPE | VISUAL CHECK | FUNCTIONAL TEST | FACTORY SETTING | MEAS. SETTING | PASS | FAIL |
|-----------|-------------|--------------|-----------------|-----------------|---------------|------|------|
|           |             |              |                 |                 |               |      |      |
|           |             |              |                 |                 |               |      |      |
|           |             |              |                 |                 |               |      |      |
|           |             |              |                 |                 |               |      |      |
|           |             |              |                 |                 |               |      |      |

COMMENTS:

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### EMERGENCY COMMUNICATION EQUIPMENT

|                    | VISUAL | FUNCTIONAL | COMMENTS |
|--------------------|--------|------------|----------|
| PHONE SET          |        |            |          |
| PHONE JACKS        |        |            |          |
| OFF-HOOK INDICATOR |        |            |          |
| AMPLIFIER(S)       |        |            |          |
| TONE GENERATOR(S)  |        |            |          |
| CALL IN SIGNAL     |        |            |          |
| SYSTEM PERFORMANCE |        |            |          |

### INTERFACE EQUIPMENT

| (SPECIFY) | VISUAL | DEVICE OPERATION | SIMULATED OPERATION |
|-----------|--------|------------------|---------------------|
| (SPECIFY) |        |                  |                     |
| (SPECIFY) |        |                  |                     |
| (SPECIFY) |        |                  |                     |
| (SPECIFY) |        |                  |                     |

### SPECIAL HAZARD SYSTEMS

| (SPECIFY) | VISUAL | DEVICE OPERATION | SIMULATED OPERATION |
|-----------|--------|------------------|---------------------|
| (SPECIFY) |        |                  |                     |
| (SPECIFY) |        |                  |                     |
| (SPECIFY) |        |                  |                     |

SPECIAL PROCEDURES: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### ON/OFF PREMISIS MONITORING

|                      | YES | NO | COMMENTS |
|----------------------|-----|----|----------|
| ALARM SIGNAL         | X   |    |          |
| ALARM RESTORAL       | X   |    |          |
| TROUBLE SIGNAL       | X   |    |          |
| TROUBLE RESTORAL     | X   |    |          |
| SUPERVISORY SIGNAL   | X   |    |          |
| SUPERVISORY RESTORAL | X   |    |          |

### NOTIFICATIONS THAT TESTING IS COMPLETE

|                     | YES | NO | COMMENTS |
|---------------------|-----|----|----------|
| BUILDING MANAGEMENT | X   |    |          |
| MONITORING AGENCY   | X   |    |          |
| BUILDING OCCUPANTS  | X   |    |          |
| OTHER (SPECIFY)     |     |    |          |

THE FOLLOWING DID NOT OPERATE CORRECTLY: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SYSTEM RETURNED TO NORMAL OPERATION DATE: 10/21/2014 TIME: \_\_\_\_\_

THIS TESTING WAS PERFORMED IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS

NAME OF INSPECTOR: \_\_\_\_\_ Chris H.

DATE: 10/21/2014

SIGNATURE: \_\_\_\_\_

NAME OF OWNER REPRESENTATIVE: \_\_\_\_\_ Judy Maurer

DATE: 10/21/2014

SIGNATURE: \_\_\_\_\_





|    |                                 | PASSED | FAILED | % PASSED |
|----|---------------------------------|--------|--------|----------|
| 14 | TOTAL DEVICES                   | 14     | 0      |          |
| 1  | TOTAL SMOKE DETECTORS           | 1      | 0      | 100.00%  |
| 4  | TOTAL MANUAL PULL STATIONS      | 4      | 0      | 100.00%  |
| 3  | TOTAL DUCT SMOKE DETECTORS      | 3      | 0      | 100.00%  |
| 0  | TOTAL HEAT DETECTORS            | 0      | 0      | NA       |
| 2  | TOTAL WATERFLOWS                | 2      | 0      | 100.00%  |
| 4  | TOTAL TAMPER VALVES             | 4      | 4      | 100.00%  |
| 0  | TOTAL PRESSURE SWITCHES         | 0      | 0      | NA       |
| 0  | TOTAL LOW AIR                   | 0      | 0      | NA       |
| 0  | TOTAL PRE ACTION ALARMS         | 0      | 0      | NA       |
| 0  | TOTAL PRE ACTION TROUBLES       | 0      | 0      | NA       |
| 0  | TOTAL PRE ACTION SUPERVISORIES  | 0      | 0      | NA       |
| 0  | PUMP POWER                      | 0      | 0      | NA       |
| 0  | TOTAL PUMP RUN                  | 0      | 0      | NA       |
| 0  | TOTAL PUMP TROUBLE              | 0      | 0      | NA       |
| 0  | TOTAL PUMP NOT IN AUTO          | 0      | 0      | NA       |
| 0  | TOTAL HORNS                     | 0      | 0      | NA       |
| 0  | TOTAL STROBES                   | 0      | 0      | NA       |
| 0  | TOTAL SPEAKERS                  | 0      | 0      | NA       |
| 0  | TOTAL HORN STROBES              | 0      | 0      | NA       |
| 0  | TOTAL SPEAKER STROBES           | 0      | 0      | NA       |
| 0  | TOTAL BELL                      | 0      | 0      | NA       |
| 0  | TOTAL DOOR HOLDER               | 0      | 0      | NA       |
| 0  | TOTAL HVAC SHUTDOWN             | 0      | 0      | NA       |
| 0  | TOTAL DAMPER CONTROLS           | 0      | 0      | NA       |
| 0  | TOTAL NURSE CALL                | 0      | 0      | NA       |
| 0  | TOTAL PRINTER                   | 0      | 0      | NA       |
| 0  | TOTAL POWER SUPPLY              | 0      | 0      | NA       |
| 0  | TOTAL FACP                      | 0      | 0      | NA       |
| 0  | TOTAL ANNUNCIATOR               | 0      | 0      | NA       |
| 0  | TOTAL NAC PANEL                 | 0      | 0      | NA       |
| 0  | TOTAL MISCELLANEOUS             | 0      | 0      | NA       |
| 0  | TOTAL CARBON MONOXIDE DETECTORS | 0      | 0      | NA       |

## FIRE ALARM SYSTEM RECORD OF COMPLETION

*To be completed by the system installation contractor at the time of system acceptance and approval.*

### 1. Protected Property Information

Name of property: Men's Wearhouse & Vacant Space #74  
Address: 56 Chambersbridge Road, Brick NJ 08723  
Description of property: Retail Store  
Occupancy type: Mercantile  
Name of property representative: Judy Maurer / Federal Realty  
Address:  
Phone: 215-852-6405 Fax: E-mail: Jmaurer@federalrealty.com  
Authority having jurisdiction over this property: Dan Newman / Brick Township Construction Official  
Phone: 732-262-1030 Fax: E-mail: dnewman@twp.brick.nj.us

### 2. Fire Alarm System Installation, Service, and Testing Information

Installation contractor for this equipment: Electronic Security Solutions, LLC  
Address: 101 East Laurel Avenue Suite B Cheltenham, PA 19012  
Phone: 215-277-5248 Fax: 215-277-5263 E-mail: tcapie@essfiresys.com  
Service organization for this equipment: Electronic Security Solutions, LLC  
Address: 101 East Laurel Avenue Suite B Cheltenham, PA 19012  
Phone: 215-277-5248 Fax: 215-277-5263 E-mail: tcapie@essfiresys.com  
Location of as-built drawings: On file Location of Historical Test Reports: On File  
Location of system operation and maintenance manuals: On File  
A contract for test and inspection in accordance with NFPA standards is in effect as of N/A  
Contracted testing company: Electronic Security Solutions, LLC  
Address: 101 East Laurel Avenue Suite B Cheltenham, PA 19012  
Phone: 215-277-5248 Fax: 215-277-5263 E-mail: tcapie@essfiresys.com  
Contract expires: 01/01/2015 Contract number: Frequency of routine inspections: Annual

### 3. Type of Fire Alarm System or Service

NFPA 72®, Chapter Reference of System Type: Chapter 8  
Name of organization receiving alarm signals with phone numbers (if applicable):  
Alarm: COPS Monitoring Phone: 800-633-2677  
Supervisory: COPS Monitoring Phone: 800-633-2677  
Trouble: COPS Monitoring Phone: 800-633-2677  
Entity to which alarms are retransmitted: Ocean County Dispatch Phone: 732-349-2010  
Method of retransmission of alarms to that organization or location: DACT

If Chapter 8, note the means of transmission from the protected premises to the central station:

☒ Digital alarm communicator ☐ McCulloh ☐ Multiplex ☐ 2-way radio ☐ 1-way radio ☐ N/A

If Chapter 9, note the type of connection: ☐ Local energy ☐ Shunt ☐ N/A

### 3.1 System Software

Operating system (executive) software revision level: 3.51

Site-specific software revision date: 9/3/14

Revision completed by: Tom Miller

## 4. Signaling Line Circuits

*Characteristics of signaling line circuits connected to this system (see NFPA 72®, Table 6.6.1):*

Quantity: 1 Style: 4.5 Class: B

## 5. Alarm-Initiating Devices and Circuits

*Characteristics of initiating device circuits connected to this system (see NFPA 72®, Table 6.5):*

Quantity: N/A Style: Class:

### 5.1 Manual Initiating Devices

**5.1.1 Manual Pull Stations** Number of manual pull stations: 4

Type of devices: ☒ Addressable ☐ Conventional ☐ Coded ☐ Transmitter ☐ N/A

### 5.2 Automatic Initiating Devices

**5.2.1 Area Smoke Detectors** Number of smoke detectors: 1

Type of coverage: ☐ Complete area ☒ Partial area ☐ Nonrequired partial area ☐ N/A

Type of devices: ☒ Addressable ☐ Conventional ☐ Coded ☐ Transmitter ☐ N/A

Type of smoke detector sensing technology: ☐ Ionization ☒ Photoelectric

**5.2.2 Duct Smoke Detectors** Number of duct smoke detectors: 3

Type of coverage:

Type of devices: ☒ Addressable ☐ Conventional ☐ Coded ☐ Transmitter ☐ N/A

Type of smoke detector sensing technology: ☐ Ionization ☒ Photoelectric

**5.2.3 Heat Detectors** Number of heat detectors: 0

Type of coverage: ☒ Complete area ☒ Partial area ☐ Nonrequired partial area ☐ N/A

Type of devices: ☒ Addressable ☐ Conventional ☐ Coded ☐ Transmitter ☐ N/A

**5.2.4 Sprinkler Waterflow Detectors** Number of waterflow detectors: 2

Type of devices: ☒ Addressable ☐ Conventional ☐ Coded ☐ Transmitter ☐ N/A

**5.2.5 Alarm Verification** Number of devices subject to alarm verification: 1

Alarm verification on this system is: ☒ Enabled ☐ Disabled ☒ Set for 30 seconds

## 6. Supervisory Signal-Initiating Devices and Circuits

**6.1 Sprinkler System** Number of valve supervisory switches: 4

Type of devices: ☒ Addressable ☐ Conventional ☐ Coded ☐ Transmitter ☐ N/A

## 6.2 Fire Pump

Type of fire pump: ☐ Electric ☐ Diesel

Type of fire pump supervisory devices: ☐ Addressable ☐ Conventional ☐ Coded ☐ Transmitter ☒ N/A

Fire Pump Functions Supervised

☐ Fire pump power ☐ Fire pump running ☐ Fire pump phase reversal ☐ Selector switch not in auto

☐ Engine or control panel trouble ☐ Low fuel

Other:

## 6.3 Engine-Driven Generator

Type of generator supervisory devices: ☐ Addressable ☐ Conventional ☐ Coded ☐ Transmitter ☒ N/A

☐ Engine or control panel trouble ☐ Generator running ☐ Selector switch not in auto ☐ Low fuel

Other:

## 7. Annunciators

7.1 Annunciator 1 ☐ Local ☐ Remote

Type: ☒ Addressable ☐ Directory ☐ Graphic ☒ N/A Location:

7.2 Annunciator 2 ☐ Local ☐ Remote

Type: ☐ Addressable ☐ Directory ☐ Graphic ☒ N/A Location:

7.3 Annunciator 3 ☐ Local ☐ Remote

Type: ☐ Addressable ☐ Directory ☐ Graphic ☒ N/A Location:

## 8. Alarm Notification Devices and Circuits

### 8.1 Emergency Voice Alarm Service

Number of single voice alarm channels: N/A

Number of multiple voice alarm channels: N/A

Number of speakers: N/A

Number of speaker zones: N/A

### 8.2 Telephone Jacks

Number of telephone jacks installed: N/A

Number of telephone handsets stored on site: N/A

Type of telephone system installed: ☐ Electrically powered ☐ Sound powered ☒ N/A

### 8.3 Nonvoice Audible System

*Characteristics of notification device circuits connected to this system (see NFPA 72®, Table 6.5):*

Quantity: 4

Style: Y

Class: B

### 8.4 Types and Quantities of Nonvoice Notification Appliances Installed

Bells: With visual device:

Horns:

With visual device: 10

Chimes: With visual device:

Bells:

With visual device:

Visual devices without audible devices: 2

Other (describe):

## 9. Emergency Control Functions Activated

- ☐ Hold-open door releasing devices    ☐ Smoke management or smoke control  
☐ Door unlocking    ☐ Elevator recall    ☐ Other

## 10. System Power Supply

### 10.1 Primary Power

Nominal voltage: 120VAC    Amps: 6  
Overcurrent protection: Type: Breaker    Amps: 20  
Location (of primary supply panelboard): Electric Room  
Disconnecting means location: Panel #1 Breaker # 24

### 10.2 Secondary Power

Location: FACP    Type: SLA Battery    Nominal voltage: 24VDC    Current rating: 12  
Number of standby batteries: 2    Amp hour rating: 7  
Location of emergency generator: N/A  
Location of fuel storage: N/A  
Calculated capacity of secondary power to drive the system  
In standby mode: 24    In alarm mode: 5

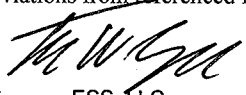
## 11. Record of System Installation

*Fill out after all installation is complete and wiring has been checked for opens, shorts, ground faults, and improper branching, but before conducting operational acceptance tests.*

The system has been installed in accordance with the following NFPA standards: (Note any or all that apply.)

- ☒ NFPA 72®    ☒ NFPA 70®, Article 760  
☒ Manufacturer's published instructions    ☐ Other (please specify):

System deviations from referenced NFPA standards:

Signed:     Printed name: Thomas Capie    Date: 10/15/2014  
Organization: ESS, LLC    Title: VP of Operations    Phone: 215-277-5248

## 12. Record of System Operation

All operational features and functions of this system were tested by or in the presence of the signer shown below, on the date shown below, and were found to be operating properly in accordance with the requirements of:

- ☒ NFPA 72®    ☒ NFPA 70®, Article 760  
☒ Manufacturer's published instructions    ☐ Other (please specify):  
☒ Documentation in accordance with Inspection and Testing Form (Figure 10.6.2.3 of NFPA 72®) is attached

Signed:     Printed name: Thomas Capie    Date: 10/15/2014  
Organization: ESS, LLC    Title: VP of Operations    Phone: 215-277-5248

### 13. Certifications and Approvals

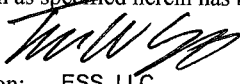
#### 13.1 System Installation Contractor

This system as specified herein has been installed and tested according to all NFPA standards cited herein.

Signed:  Printed name: Thomas Capie Date: 10/15/2014  
Organization: ESS, LLC Title: VP of Operations Phone: 215-277-5248

#### 13.2 System Service Contractor

This system as specified herein has been installed and tested according to all NFPA standards cited herein.

Signed:  Printed name: Thomas Capie Date: 10/15/2014  
Organization: ESS, LLC Title: VP of Operations Phone: 215-277-5248

#### 13.3 Central Station

This system as specified herein will be monitored according to all NFPA standards cited herein.

Signed: Printed name: Date:  
Organization: Title: Phone:

#### 13.4 Property Representative

I accept this system as having been installed and tested to its specifications and all NFPA standards cited herein.

Signed: Printed name: Date:  
Organization: Title: Phone:

#### 13.5 Authority Having Jurisdiction

I have witnessed a satisfactory acceptance test of this system and find it to be installed and operating properly in accordance with its approved plans and specifications, its approved sequence of operations, and with all NFPA standards cited herein.

Signed: Printed name: Date:  
Organization: Title: Phone:

## Fire Bureau

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**From:** Tommy Miller <tmiller@essfiresys.com>  
**Sent:** Wednesday, October 22, 2014 3:53 PM  
**To:** Fire Bureau  
**Subject:** Copy of Report  
**Attachments:** Mens Warehouse & Unit 25.pdf

Hello Rich,

Attached is your alarm report and zone descriptions for Men's Warehouse & Vacant Store. I did the best I could with the zones. Unfortunately I don't have as many characters as my program.

If you want anything change let me know.

Thanks,

Tom Miller



## ELECTRONIC SECURITY SOLUTIONS (ESS) - Individual Account History

NOTE: This account is currently NOT on test

## Individual Account History

Legend:

D.H. = Dispatcher Handled

Filter signals by code: Show All 

| Signal Type                         | Account Name   | Account # | Partition | Date Rec'd | Time Rec'd | Date Proc'd | Time Proc'd | Original Code/Zone (if modified) | NCF Code Rec'd | Zone | Condition                     | Action Taken? | Passcode Given | Name | Auth Notified | R.P. | Virtual | Att        |
|-------------------------------------|----------------|-----------|-----------|------------|------------|-------------|-------------|----------------------------------|----------------|------|-------------------------------|---------------|----------------|------|---------------|------|---------|------------|
| <input type="button" value="View"/> | MENS WAREHOUSE | 379-1127  | 0         | 10/22/2014 | 11:30:22   | 10/22/2014  | 11:30:22    |                                  | 305            | 000  | RESTORE                       |               |                |      |               |      |         | 7329202495 |
| <input type="button" value="View"/> | MENS WAREHOUSE | 379-1127  | 0         | 10/22/2014 | 11:30:18   | 10/22/2014  | 11:30:18    |                                  | 373            | 000  | RESTORE                       |               |                |      |               |      |         | 7329202495 |
| <input type="button" value="View"/> | MENS WAREHOUSE | 379-1127  | 0         | 10/22/2014 | 11:30:14   | 10/22/2014  | 11:30:14    |                                  | 110            | 000  | RESTORE                       |               |                |      |               |      |         | 7329202495 |
| <input type="button" value="View"/> | MENS WAREHOUSE | 379-1127  | 1         | 10/22/2014 | 11:30:12   | 10/22/2014  | 11:30:12    |                                  | 110            | 006  | RESTORE                       |               |                |      |               |      |         | 7329202495 |
| <input type="button" value="View"/> | MENS WAREHOUSE | 379-1127  | 0         | 10/22/2014 | 11:29:31   | 10/22/2014  | 11:29:31    |                                  | 305            | 000  | SYSTEM RESET                  |               |                |      |               |      |         | 7329202495 |
| <input type="button" value="View"/> | MENS WAREHOUSE | 379-1127  | 0         | 10/22/2014 | 11:29:27   | 10/22/2014  | 11:29:27    |                                  | 373            | 000  | FIRE TROUBLE                  |               |                |      |               |      |         | 7329202495 |
| <input type="button" value="View"/> | MENS WAREHOUSE | 379-1127  | 0         | 10/22/2014 | 11:29:23   | 10/22/2014  | 11:29:56    |                                  | 110            | 000  | FIRE - 000                    | Y             |                |      |               |      |         | 7329202495 |
| <input type="button" value="View"/> | MENS WAREHOUSE | 379-1127  | 1         | 10/22/2014 | 11:29:20   | 10/22/2014  | 11:29:32    |                                  | 110            | 006  | FIRE - WATERFLOW VACANT SPACE | Y             |                |      |               |      |         | 7329202495 |
| <input type="button" value="View"/> | MENS WAREHOUSE | 379-1127  | 0         | 10/22/2014 | 11:24:34   | 10/22/2014  | 11:24:34    |                                  | 305            | 000  | RESTORE                       |               |                |      |               |      |         | 7329202495 |
| <input type="button" value="View"/> | MENS WAREHOUSE | 379-1127  | 0         | 10/22/2014 | 11:24:30   | 10/22/2014  | 11:24:30    |                                  | 305            | 000  | SYSTEM RESET                  |               |                |      |               |      |         | 7329202495 |
| <input type="button" value="View"/> | MENS WAREHOUSE | 379-1127  | 0         | 10/22/2014 | 11:24:26   | 10/22/2014  | 11:24:26    |                                  | 373            | 000  | RESTORE                       |               |                |      |               |      |         | 7329202495 |
| <input type="button" value="View"/> | MENS WAREHOUSE | 379-1127  | 0         | 10/22/2014 | 11:24:22   | 10/22/2014  | 11:24:22    |                                  | 373            | 000  | FIRE TROUBLE                  |               |                |      |               |      |         | 7329202495 |



|     |                      |         |                |          |   |            |          |            |          |          |     |     |                                                                          |   |  |  |                                                                     |                                                          |            |
|-----|----------------------|---------|----------------|----------|---|------------|----------|------------|----------|----------|-----|-----|--------------------------------------------------------------------------|---|--|--|---------------------------------------------------------------------|----------------------------------------------------------|------------|
| 13. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 11:24:19 | 10/22/2014 | 11:24:19 | 11:24:19 | 110 | 000 | RESTORE                                                                  |   |  |  |                                                                     | 7329202495                                               |            |
| 14. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 1 | 10/22/2014 | 11:24:15 | 10/22/2014 | 11:24:15 | 11:24:15 | 115 | 013 | RESTORE                                                                  |   |  |  |                                                                     | 7329202495                                               |            |
| 15. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 11:24:11 | 10/22/2014 | 11:25:09 | 11:25:09 | 110 | 000 | FIRE - 000                                                               | Y |  |  | FIRE DEPT<br>732-262-1100<br>11:25:10<br>825 *746/8*                | JUDY<br>*3259/109*<br>11:39:15                           | 7329202495 |
| 16. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 1 | 10/22/2014 | 11:24:07 | 10/22/2014 | 11:24:08 | 11:24:08 | 115 | 013 | FIRE/PULL<br>STATION -<br>MANUAL<br>FRONT<br>VANGUARD<br>AREA BLDG<br>74 | Y |  |  | FIRE DEPT<br>732-262-1100<br>11:24:09<br>825 *746/8*                | JUDY<br>*3259/109*<br>11:36:16                           | 7329202495 |
| 17. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 11:08:49 | 10/22/2014 | 11:08:49 | 11:08:49 | 305 | 000 | RESTORE                                                                  |   |  |  |                                                                     | 7329202785                                               |            |
| 18. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 11:08:46 | 10/22/2014 | 11:08:46 | 11:08:46 | 373 | 000 | RESTORE                                                                  |   |  |  |                                                                     | 7329202785                                               |            |
| 19. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 11:08:42 | 10/22/2014 | 11:05:42 | 11:05:42 | 373 | 000 | FIRE<br>TROUBLE                                                          |   |  |  |                                                                     | 7329202785                                               |            |
| 20. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 11:08:38 | 10/22/2014 | 11:08:38 | 11:08:38 | 110 | 000 | RESTORE                                                                  |   |  |  |                                                                     | 7329202785                                               |            |
| 21. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 1 | 10/22/2014 | 11:08:34 | 10/22/2014 | 11:08:34 | 11:08:34 | 115 | 003 | RESTORE                                                                  |   |  |  |                                                                     | 7329202785                                               |            |
| 22. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 11:08:31 | 10/22/2014 | 11:08:31 | 11:08:31 | 305 | 000 | SYSTEM<br>RESET                                                          |   |  |  |                                                                     | 7329202785                                               |            |
| 23. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 11:07:05 | 10/22/2014 | 11:09:00 | 11:09:00 | 110 | 000 | FIRE - : 000                                                             | Y |  |  | FIRE DEPT<br>732-262-1100<br>11:09:01<br>SEE ORIGINAL<br>*4163/11*  | JUDY/ON<br>SCENE<br>TESTING<br>*4163/11*<br>11:09:10     | 7329202785 |
| 24. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 1 | 10/22/2014 | 11:07:03 | 10/22/2014 | 11:08:06 | 11:08:06 | 115 | 003 | FIRE/PULL<br>STATION -<br>MANUAL<br>SIDE EXIT<br>MENS<br>WAREHOUSE       | Y |  |  | FIRE DEPT.<br>732-262-1100<br>11:08:06<br>SEE ORIGINAL<br>*4163/11* | JUDY/FRD<br>ON SCENE<br>TESTING<br>*4163/11*<br>11:08:34 | 7329202785 |
| 25. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 11:04:40 | 10/22/2014 | 11:04:40 | 11:04:40 | 305 | 000 | RESTORE                                                                  |   |  |  |                                                                     | 7329202785                                               |            |
| 26. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 11:04:37 | 10/22/2014 | 11:04:37 | 11:04:37 | 373 | 000 | RESTORE                                                                  |   |  |  |                                                                     | 7329202785                                               |            |
| 27. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 11:04:33 | 10/22/2014 | 11:04:33 | 11:04:33 | 110 | 000 | RESTORE                                                                  |   |  |  |                                                                     | 7329202785                                               |            |
| 28. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 1 | 10/22/2014 | 11:04:29 | 10/22/2014 | 11:04:29 | 11:04:29 | 115 | 002 | RESTORE                                                                  |   |  |  |                                                                     | 7329202785                                               |            |
| 29. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 11:04:26 | 10/22/2014 | 11:04:26 | 11:04:26 | 305 | 000 | SYSTEM<br>RESET                                                          |   |  |  |                                                                     | 7329202785                                               |            |
| 30. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 11:04:23 | 10/22/2014 | 11:04:23 | 11:04:23 | 373 | 000 | FIRE<br>TROUBLE                                                          |   |  |  |                                                                     | 7329202785                                               |            |
| 31. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 11:02:10 | 10/22/2014 | 11:04:08 | 11:04:08 | 110 | 000 | FIRE - : 000                                                             | Y |  |  | FIRE<br>732-458-4100<br>11:04:08<br>SEE ORIGINAL<br>*4163/11*       | JUDY/FRD<br>ON SCENE<br>TESTING<br>*4163/11*<br>11:09:18 | 7329202785 |
| 32. | <a href="#">View</a> | History | MENS WAREHOUSE | 379-1127 | 1 | 10/22/2014 | 11:02:07 | 10/22/2014 | 11:02:15 | 11:02:15 | 115 | 002 | FIRE/PULL                                                                | Y |  |  | FIRE                                                                | JUDY/FRD                                                 | 7329202785 |

|     |             |         |                |          |   |            |          |            |          |     |     |                                                |                                                       |                                              |            |
|-----|-------------|---------|----------------|----------|---|------------|----------|------------|----------|-----|-----|------------------------------------------------|-------------------------------------------------------|----------------------------------------------|------------|
| 33. | <b>View</b> | History | MENS WAREHOUSE | 379-1127 | 0 | 10/22/2014 | 03:06:40 | 10/22/2014 | 03:06:40 | 602 | 000 | STATION -<br>MANUAL<br>FRONT MENS<br>WAREHOUSE | 732-458-4100<br>11:02:16<br>836 *4163/11*<br>11:04:57 | ON SCENE<br>TESTING<br>*4163/11*<br>11:04:57 | 7329202785 |
|-----|-------------|---------|----------------|----------|---|------------|----------|------------|----------|-----|-----|------------------------------------------------|-------------------------------------------------------|----------------------------------------------|------------|



Print this page

**C.O.P.S. Monitoring - Print Account Information****Print Account #379-1127****Zone Descriptions:**

|             |            |                                            |
|-------------|------------|--------------------------------------------|
| <b>Zone</b> | <b>001</b> | <b>SMOKE ABOVE FACP UNIT 25 SECTOR H</b>   |
| <b>Zone</b> | <b>002</b> | <b>MANUAL FRT. MENS WAREHOUSE SECTOR H</b> |
| <b>Zone</b> | <b>003</b> | <b>MANUAL SIDE MENS WAREHOUSE SECTOR H</b> |
| <b>Zone</b> | <b>004</b> | <b>TAMPER CEILING MENS WAREHOUSE SEC H</b> |
| <b>Zone</b> | <b>005</b> | <b>MAIN TAMPERS UNIT 25 SECTOR H</b>       |
| <b>Zone</b> | <b>006</b> | <b>WATERFLOW VACANT UNIT 25 SECTOR H</b>   |
| <b>Zone</b> | <b>007</b> | <b>TAMPER VACANT UNIT 25 SECTOR H</b>      |
| <b>Zone</b> | <b>008</b> | <b>WATERFLOW MENS WAREHOUSE SECTOR H</b>   |
| <b>Zone</b> | <b>009</b> | <b>TAMPER MENS WAREHOUSE SECTOR H</b>      |
| <b>Zone</b> | <b>010</b> | <b>RTU FRONT MENS WAREHOUSE SECTOR H</b>   |
| <b>Zone</b> | <b>011</b> | <b>RTU LEFT REAR MENS WAREHOUSE SEC H</b>  |
| <b>Zone</b> | <b>012</b> | <b>RTU RIGHT REAR MENS WAREHOUSE SEC H</b> |
| <b>Zone</b> | <b>013</b> | <b>MANUAL FRONT VACANT UNIT 25 SEC H</b>   |
| <b>Zone</b> | <b>014</b> | <b>MANUAL REAR VACANT UNIT 25 SEC H</b>    |



# APPLICATION FOR CERTIFICATE

Date Received 08/11/2014  
Date Permit Issued 09/26/2014  
Control # C-14-003514  
Permit # 14-3185  
Date Issued

## IDENTIFICATION

Block 671 Lot 1.01 Qualifier \_\_\_\_\_  
Work Site Location 56 CHAMBERS BRIDGE RD. Actual Men's Contractor NOVA CONSTRUCTION INC  
Warehouse Tenant Permit Brick Township, NJ Address 8 High Street Suite D Mullica Hill NJ 08062  
Owner in Fee FEDERAL REALTY INVESTMENT TRUST  
1626 EAST JEFFERSON ST ROCKVILLE NJ Telephone (856) 678-0400  
20852 Lic. No. or Bldrs. Reg. No. \_\_\_\_\_  
Telephone \_\_\_\_\_ Federal Employee No. \_\_\_\_\_

## ACTION

- ☐ CERTIFICATE OF OCCUPANCY  
☐ CERTIFICATE OF CONTINUED OCCUPANCY  
☐ LEAD HAZARD ABATEMENT CERTIFICATE OF CLEARANCE  
☒ TEMPORARY CERTIFICATE OF OCCUPANCY

USE GROUP \_\_\_\_\_ Previous M Current

FINAL COST OF CONSTRUCTION: \$ 71500

(Include value of any new structure, all on-site improvements, built-in furnishings and fixtures and all the integral equipment exclusive of process or manufacturing equipment.)

A set of "As Built" or amended drawings is required if the building or structure deviates from the approved plans filed with the construction permit. Use space below to describe any deviations from approved plans:

If you are requesting a Temporary Certificate of Occupancy, please explain why in the space below.

*So the store (Mens Wearhouse) can open at  
56 Chambers Bridge Rd Suite 76 Brick Plaza*

DESCRIPTION OF WORK/USE:  
Alteration TENANT FIT UP - MEN'S WAREHOUSE

I hereby attest that to the best of my knowledge, the completed project meets the conditions of construction permit and all prior approvals, and all work has been completed substantially in accordance with the code and with those portions of the plans and specifications controlled by the code, with any substantial deviations noted. Incomplete items listed on a Temporary Certificate of Occupancy will be complete by the date on the

SIGNED: \_\_\_\_\_

Owner/Agent

☐ OWNER

☒ AGENT

*Nov. 06-2014*



# BUILDING SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 671 Lot 1.01 Qualification Code 08783

Work Site Location 44 Brick Plaza Brick NJ 08783

Owner in Fee: MEN'S WEAR HOUSE

Tel. ( ) 406 50 e-mail jason.kirby@expeditepermits.com

Address 406 50 Encyclopedia Cir Freemont NJ

Contractor: NOVA Construction Tel. ( ) 856 638 0400

Address 24 High St Suite D e-mail novacoconstruction.com

Contractor License No. or Builder Registration No. 23-2615045 Exp. Date 08/15/2015

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): 856 638 0400

Federal Emp. ID No. 83-2615045 FAX: 856 638 0400

## JOB SUMMARY (Office Use Only)

| PLAN REVIEW                                                                                                                    | Date            | Initial   | INSPECTIONS                                   | Type:                            | Failure                           | Dates (Month/Day)                | Initial |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|-----------------------------------------------|----------------------------------|-----------------------------------|----------------------------------|---------|
| <input checked="" type="checkbox"/> No Plans Required                                                                          | <u>10/26/14</u> | <u>WJ</u> | <input type="checkbox"/> Footing              | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
| <input type="checkbox"/> All                                                                                                   |                 |           | <input type="checkbox"/> Footings/Foundations | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
| <input type="checkbox"/> Structural/Framework                                                                                  |                 |           | <input type="checkbox"/> Foundation           | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
| <input type="checkbox"/> Exterior                                                                                              |                 |           | <input type="checkbox"/> Slab                 | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
| <input type="checkbox"/> Interior                                                                                              |                 |           | <input type="checkbox"/> Frame                | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
| <input type="checkbox"/> Joint Plan Review Required:                                                                           |                 |           | <input type="checkbox"/> Truss Sys./Bracing   | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
| <input type="checkbox"/> Elec. <input type="checkbox"/> Plumb. <input type="checkbox"/> Fire <input type="checkbox"/> Elevator |                 |           | <input type="checkbox"/> Barrier-Free         | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
| SUBCODE APPROVAL for PERMIT                                                                                                    | <u>10/26/14</u> |           | <input type="checkbox"/> Insulation           | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
| Date:                                                                                                                          | <u>10/26/14</u> |           | <input type="checkbox"/> Finishes -Base Layer | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
| Approved by:                                                                                                                   | <u>WJ</u>       |           | <input type="checkbox"/> Finishes -Final      | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
| SUBCODE APPROVAL for CERTIFICATE                                                                                               | <u>WJ</u>       |           | <input type="checkbox"/> Energy               | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
| <input type="checkbox"/> CO <input type="checkbox"/> CCO <input checked="" type="checkbox"/> CA                                | <u>11/05/14</u> |           | <input type="checkbox"/> Mechanical           | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
| Date:                                                                                                                          | <u>11/05/14</u> |           | <input type="checkbox"/> TCO                  | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
| Approved by:                                                                                                                   | <u>WJ</u>       |           | <input type="checkbox"/> Other                | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
|                                                                                                                                | <u>WJ</u>       |           | <input type="checkbox"/> Final                | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |
|                                                                                                                                | <u>WJ</u>       |           | <input type="checkbox"/> Barrier-Free         | <input type="checkbox"/> Failure | <input type="checkbox"/> Approval | <input type="checkbox"/> Initial |         |

## B. BUILDING CHARACTERISTICS

| Use Group                 | Present | Proposed | Constr. Class               | Present | Proposed |
|---------------------------|---------|----------|-----------------------------|---------|----------|
| No. of Stories            |         |          | If Industrialized Building: |         |          |
| Height of Structure       |         |          | State Approved              |         |          |
| Area — Largest Floor      |         |          | HUD                         |         |          |
| New Bldg. Area/All Floors |         |          | Est. Cost of Bldg. Work:    |         |          |
| Volume of New Structure   |         |          | 1. New Bldg.                |         |          |
| Max. Live Load            |         |          | 2. Rehabilitation           |         |          |
| Max. Occupancy Load       |         |          | 3. Total (1+2)              |         |          |

## 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.

Sign here:

Print name here:

## D. TECHNICAL SITE DATA

### DESCRIPTION OF WORK

Relocate wall  
Duct work  
Actual Men's  
Wear House

WJ

Date Received 10/7/14  
Control # 000000  
Date Issued 14-318570  
Permit #

## FEE (Office Use Only)

|                               |  |
|-------------------------------|--|
| Administrative Surcharge \$   |  |
| Minimum Fee \$                |  |
| State Permit Surcharge Fee \$ |  |
| TOTAL FEE \$                  |  |

1 White = Inspector Copy  
3 Pink = Office Copy

2 Canary = Office Copy  
4 Gold = Applicant Copy



ELECTRICAL SUBCODE  
TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 271 Lot 101 Qualification Code 08123

Work Site Location 74 Brick Plaza, Brick NJ 08123

Owner in Fee: MEN'S Wear House

Tel. ( 907 ) 469-5599 e-mail jason.burby@expeditipermits.com

Address 35 Railroad Ave Municipality EC Tel. ( 732 ) 672-0666 Zip code 08809

Contractor License No. EC14716 Exp. Date 03/15

Home Improvement Contractor Registration No. or Examination Bureau # (if applicable): EC 1421

Federal Emp. ID No. EC 1421

B. ELECTRICAL CHARACTERISTICS

Use Group Present      Proposed     

☐ Pole/Pad #      ☐ Temporary ☐ Other     

Building Occupied as      Utility Co.     

Est. Cost of Elec. Work \$ 1200

JOB SUMMARY (Office Use Only)

PLAN REVIEW

☐ No Plans Required

☐ Partial Under-slab Utilities Approved

Date:      Approved by:     

☒ Electric Plans Approved

Joint Plan Review Required:     

☐ Bldg. ☐ Plumb. ☐ Fire. ☐ Elev.

SUBCODE APPROVAL FOR PERMIT

Date: 10/31/14

SUBCODE APPROVAL FOR CERTIFICATE

Date: 10/31/14

Approved by:     

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 and perform the work listed on this application.

Applicant sign/Contractor sign and seal here: Jason Burby

Print name here: Jason Burby

Licensed Elec. Contractor ☐ Certifd Landscape Irrigation Contr ☐ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK: Add to Existing Permit.

QTY SIZE ITEMS

3 5" Lighting Fixtures

5 5" Receptacles

5 5" Switches

5 5" Detectors

5 5" Light Poles

5 5" Motors—Fract. HP

5 5" Emergency & Exit Lights

5 5" Communications Points

5 5" Alarm Devices/F.A.C. Panel

5 5" Alarm Devices/F.A.C. Panel

5 5" Alarm Devices/F.A.C. Panel

5 5" Alarm Devices/F.A.C. Panel

5 5" Alarm Devices/F.A.C. Panel

5 5" Alarm Devices/F.A.C. Panel

Date Received 10/30/14

Control # 14-3185

Date Issued 10/30/14

Permit # 14-3185

TOTAL NUMBERS

Pool Permit/with UW Lights

Storable Pool/Spa/Hot Tub

KW Elec. Range/Receptacle

KW Oven/Surface Unit

KW Elec. Water Heater

KW Elec. Dryer/Receptacle

KW Dishwasher

HP Garbage Disposal

KW Central A/C Unit

HP/KW Space Heater/Air Handler

KW Baseboard Heat

HP Motors 1/4 HP

KW Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KW Elec. Sign/Outline Light

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$



# ELECTRICAL SUBCODE TECHNICAL SECTION



update permit

10/20/14 (JB)

Date Received  
Control #

14-3185+E

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

## 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 and perform the work listed in this application.

Print name here: Jason F. Roberts

Licensed Elec. Contractor [ ] Cert'd Landscape Irrigation Contr. [ ] Exempt Applicant

Block 671 Lot 1.01 Qualification Code 08723  
Work Site Location 56 Chamber Bridge Rd. The Brick Plaza, Brick NJ 08723

Owner in Fee: Mens Linear House

Tel. ( 407 ) 469-5599 e-mail Jason.Arbey@speedie.com 41538

Address 4065D Enclosedia Cir. Freeport, CA 94538

Contractor: Jason F. Roberts EC Tel. ( 732 ) 672-0660

Address 35 Railroad Ave. NJ 0889 e-mail info@jfrs.com

Contractor License No. EC14716 Exp. Date 03/15

Home Improvement Contractor Registration No. or Exemption Reason (if applicable):

Federal Emp. ID N [REDACTED] FAX: (     )    

## B. ELECTRICAL CHARACTERISTICS

Use Group Present     Proposed    

[ ] Pole/Pad #     [ ] Temporary [ ] Other    

Building Occupied as     Utility Co.    

Est. Cost of Elec. Work \$ 1000

## DESCRIPTION OF WORK:

QTY. SIZE ITEMS

Lighting Fixtures

Receptacles

Switches

Detectors

Light Poles

Motors—Fract. HP

Emergency & Exit Lights

Communications Points

Alarm Devices/F.A.C. Panel

TOTAL NUMBERS

Pool Permit/with UVW Lights

Storable Pool/Spa/Hot Tub

KW Elec. Range/Receptacle

KW Elec. Water Heater

KW Elec. Dryer/Receptacle

KW Dishwasher

HP Garbage Disposal

KW Central A/C Unit

HP/KW Space Heater/Air Handler

KW Baseboard Heat

HP Motors 1/4 HP

KW Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KW Elec. Sign/Outline Light

## DATE OF GROUNDING AND BONDING

Annual Pool Inspection

Temp. Cut-in-Card Date Issued

Final Cut-in-Card Date Issued

Barrier-Free

Service

Other

TCO

Constr. Serv.

Temp. Serv.

Trench

Barrier-Free

Rough

Temp. Serv.

Constr. Serv.

TCO

Joint Plan Review Required:

[ ] Bldg. [ ] Plumb. [ ] Fire. [ ] Elev.

SUBCODE APPROVAL for PERMIT

Date: 10/31/14

Approved by: [Signature]

SUBCODE APPROVAL for CERTIFICATE

Date: 10/31/14

Approved by: [Signature]

Administrative Surcharge \$  
Minimum Fee \$  
State Permit Surcharge Fee \$  
TOTAL FEE \$



# ELECTRICAL SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 671 Lot 1.01 Qualification Code 19076

Work Site Location 56 Chamber Bridge Rd Brick NJ 07007

Owner in Fee: Federal Realty Investment Trust

Tel. ( 984, 419 1221 e-mail \_\_\_\_\_

Address 50 E Wynnewood Rd Suite 200 Wynnewood NJ 07096

Contractor: Steve Fitzpatrick Municipality MS Tel. ( 732, 672-0606 e-mail \_\_\_\_\_

Address Warehouse Station NJ

Contractor License No. EC14716 Exp. Date 03/15

Home Improvement C \_\_\_\_\_ Exemption Reason (if applicable): \_\_\_\_\_

Federal Emp. ID No. \_\_\_\_\_ FAX: ( \_\_\_\_\_ ) \_\_\_\_\_

B. ELECTRICAL CHARACTERISTICS

Use Group Present \_\_\_\_\_ Proposed \_\_\_\_\_

[ ] Pole/Pad # \_\_\_\_\_ [ ] Temporary [ ] Other \_\_\_\_\_

Building Occupied as \_\_\_\_\_ Utility Co. \_\_\_\_\_

Est. Cost of Elec. Work \$ 800.00

| JOB SUMMARY (Office Use Only)                        |                                             |         |         |          |         |
|------------------------------------------------------|---------------------------------------------|---------|---------|----------|---------|
| PLAN REVIEW                                          | INSPECTIONS                                 |         |         |          |         |
|                                                      | Type:                                       | Failure | Failure | Approval | Initial |
| [ ] No Plans Required                                | Rough                                       |         |         |          |         |
| [ ] Partial - Underslab Utilities Approved           | Barrier-Free                                |         |         |          |         |
| Date: _____ Approved by: _____                       | Trench                                      |         |         |          |         |
| [ ] Electric Plans Approved                          | Temp. Serv.                                 |         |         |          |         |
| Date: <u>11/5/14</u> Approved by: <u>[Signature]</u> | Const. Serv.                                |         |         |          |         |
| Joint Plan Review Required:                          | TCO                                         |         |         |          |         |
| [ ] Bldg. [ ] Plumb. [ ] Fire. [ ] Elev.             | Other                                       |         |         |          |         |
| SUBCODE APPROVAL for PERMIT                          | Service                                     |         |         |          |         |
| Date: <u>11/5/14</u>                                 | Final                                       |         |         |          |         |
| Approved by: <u>[Signature]</u>                      | Barrier-Free                                |         |         |          |         |
| SUBCODE APPROVAL for CERTIFICATE                     | Temp. Cut-in-Card Date Issued               |         |         |          |         |
| [ ] XCO [ ] SCC [ ] CA                               | Final Cut-in-Card Date Issued               |         |         |          |         |
| Date: <u>11/6/14</u>                                 | Annual Pool Inspection                      |         |         |          |         |
| Approved by: <u>[Signature]</u>                      | Date of Grounding and Bonding Certification |         |         |          |         |

## 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 and perform the work listed on this application.

Applicant sign/Contractor sign and seal here: \_\_\_\_\_

Print name here: Steve Fitzpatrick

[X] Licensed Elec. Contractor [ ] Certif'd Landscape Irrigation Contr [ ] Exempt Applicant

TECHNICAL SITE DATA

DESCRIPTION OF WORK: Steam generator / Exhaust Hood

QTY. SIZE ITEMS

1 Lighting Fixtures

1 Receptacles

2 Switches

2 Detectors

2 Light Poles

2 Motors—Fract. HP

2 Emergency & Exit Lights

2 Communications Points

2 Alarm Devices/F.A.C. Panel

2 TOTAL NUMBERS

Pool Permit/with UW Lights

Storage Pool/Spa/Hot Tub

KW Elec. Range/Receptacle

KW Oven/Surface Unit

KW Elec. Water Heater

KW Elec. Dryer/Receptacle

KW Dishwasher

HP Garbage Disposal

KW Central A/C Unit

HP/KW Space Heater/Air Handler

KW Baseboard Heat

HP Motors 1/4 HP

KW Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KW Elec. Sign/Outline Light

1 60amp steam ben 30

Date Received  
Control #  
Date Issued  
Permit #

11/6/14  
14-3185+1

Update + F



*Men's Warehouse*

## OWNER'S MANUAL AND INSTALLATION/OPERATIONS GUIDE

Model: PacificPac (Integrated with PSE-18)

|                     | Boiler* | Blow-down Separator |
|---------------------|---------|---------------------|
| Serial No.:         | 13158   | <u>10603</u>        |
| National Board No.: | 13158   | <u>10603</u>        |

\*UL Listed: E115947, NY MEA 168-02-M, Meets ASME CSD-I

Power Circuit: 18 KW, 208 VAC, 3 Ph, 50/60 Hz, 50.0 Amp

Control/Pump Circuit: 120 VAC, 1 Ph, 50/60 Hz, 15 Amp

Pump connection is 120 VAC and rated at maximum 11 Amp, resulting in total control/pump circuit rating to be maximum 15 Amp.

Maximum Working Pressure: 80 PSI

Safety Valve Set Pressure: 100 PSI

**Note:** This manual contains important information on this boiler.  
Keep this for ready reference at all times.

Manufactured by:  
Pacific Steam Equipment, Inc.  
Santa Fe Springs, California, USA

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## Installation

### **General**

1. PacificPac is a boiler system integrated with a blow down and make-up water system. It is packaged complete with an ASME coded and UL listed electrical boiler, an ASME coded blow-down tank, a make-up water tank, a pressure reducing baffle tank, and a boiler-water-feeding pump system. All components are pre-configured at the factory to optimize system efficiency and ease of operation. Refer to Figure 1 in this manual for your system configuration.
2. This packaged boiler system is completely pre-wired and tested before shipment. No internal wiring or plumbing is required.
3. Check to make sure all items in the packing slip are included in the package. If not, contact your supplier.
4. Place the boiler system on solid and level flooring and secure it. Flooring type may be non-combustible or combustible.

### **Plumbing**

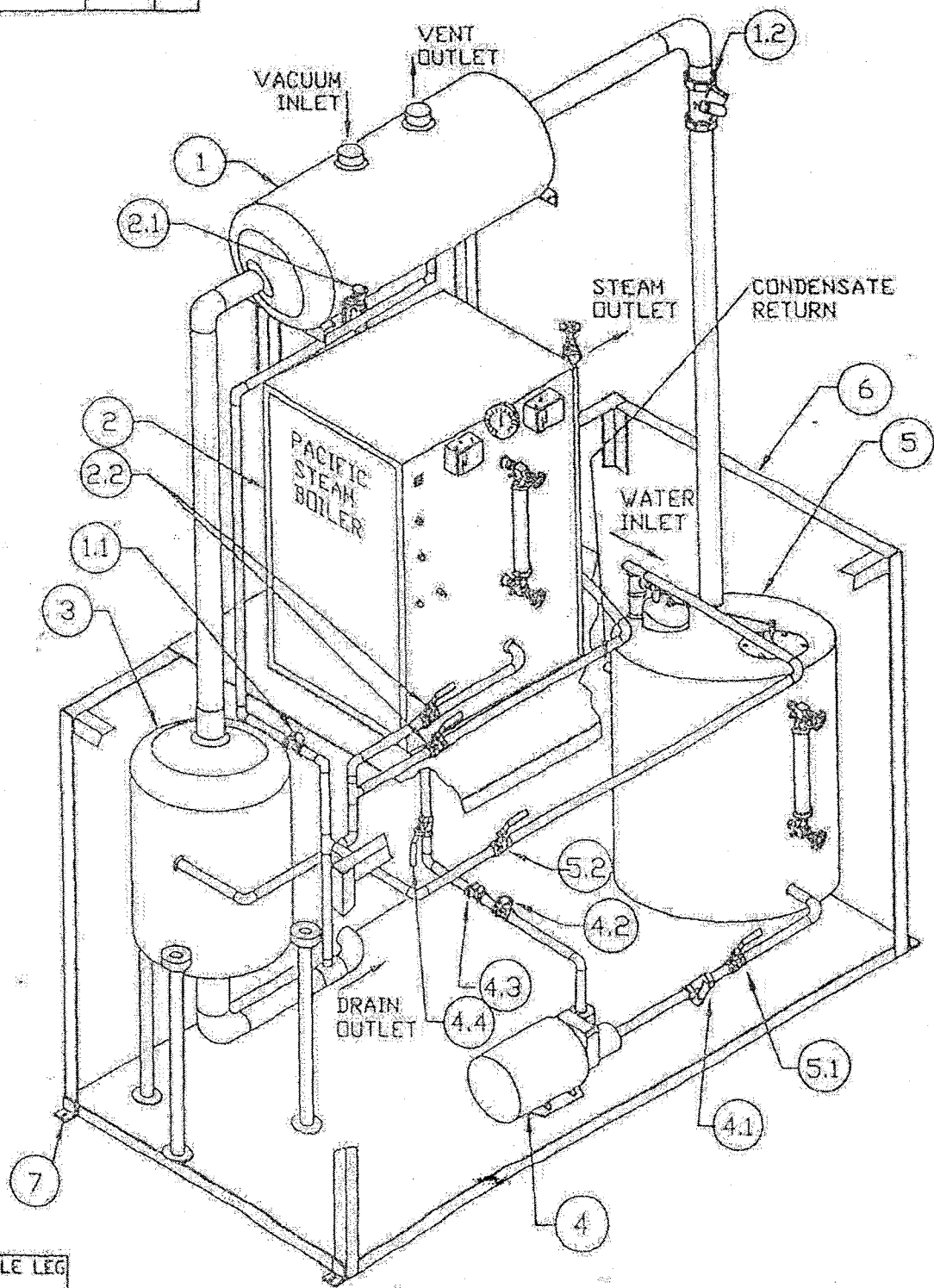
1. All plumbing connections must be installed by a licensed plumber. Refer to all applicable national and local plumbing codes for specific installation requirements.
2. A water connection (provided by user) to the water inlet of the make-up water tank (refer to Figure 1) is needed.
3. Connect the condensate return (provided by user) to the condensate return inlet port of the make-up water tank (refer to Figure 1). This connection requires a properly configured condensate return line system (provided by user).
4. A drain connection (provided by user) to the drain outlet of PacificPac (refer to Figure 1) is needed.
5. Connect the outlet of a vacuum machine(s), used for garment application, to the vacuum inlet of the baffle tank (refer to Figure 1).
6. A vent outlet connection (provided by user) on the baffle tank to the proper location is needed. The vent should be installed to discharge at a safe location above roof and must be run separate from any other vent.
7. Connect the safety valve discharge (provided by user) from the boiler to a proper discharging location (refer to Figure 1). Do not reduce the safety valve discharge outlet from its original size.

## Electrical

**Warning:** Do not substitute any components or modify internal wiring system. Such practice voids the warranty and may lead to dangerous operating conditions.

1. All electrical connections must be made by a licensed electrician. Refer to all applicable national and local electrical codes for specific installation requirements. Power wiring shall be installed in accordance with local and National Electric Code (N.E.C) or Canadian electric code requirement.
2. Before conducting field power connections, check to be sure that the field power condition matches with the power requirements and ratings specified on the boiler nameplate and wiring diagram.
3. This boiler system is factory wired and tested to operate with "three phase and one ground" incoming power configuration for main load circuit and "120 VAC one phase with one ground" for control/pump circuit. If your incoming available power configuration is different from the above configuration, consult with the supplier or manufacturer (PSE).
4. Owner should provide a disconnect switch with circuit breaker or fuses between the main power source and the boiler (refer to Figure 4, Wiring Diagram, for the proper breaker/fuse location and rating).
5. Connect electric power to the boiler (refer to Figure 4, Wiring Diagram). All field-connected power conductors must be sized properly. Conductor sizes for various voltages for this boiler are specified in Table 1 in the wiring diagram of this manual. Use 90 °C-rated copper conductors only.
6. In order to avoid severe electric shock, provide proper grounding in accordance with N.E.C requirements.
7. Refer to Figure 3 for the specific detail of routing main power/control/pump conductors in the boiler. Provide 120V incoming control circuit conductor connection to the pump motor start contactor (refer to Figure 3). Make sure to connect the hot and neutral conductors to the specific terminals on the control/pump circuit contactor identified and shown in the wiring diagram (refer to Figure 4, Wiring Diagram).
8. **Warning:** Risk of electric shock -- more than one disconnect switches are required to de-energize the equipment for servicing.

| NO | REVISIONS              | DATE   | BY |
|----|------------------------|--------|----|
| 1  | ANCHOR LOCATION CHANGE | 2/2/00 | RY |



|     |                              |
|-----|------------------------------|
| 7   | 3/8" ANCHORABLE LEG (TYP. 4) |
| 6   | STEEL WELDED FRAME           |
| 5.2 | COLD WATER MIXING VALVE      |
| 5.1 | WATER INLET VALVE            |

|     |                    |     |                         |
|-----|--------------------|-----|-------------------------|
| 5   | MAKE-UP WATER TANK | 3   | ASH CODED BLOWDOWN TANK |
| 4.4 | WATER INLET VALVE  | 2.2 | BLOWDOWN VALVE 1 & 2    |
| 4.3 | CHECK VALVE-SWING  | 2.1 | SAFETY VALVE            |
| 4.2 | CHECK VALVE-SPRING | 2   | PACIFIC STEAM BOILER    |
| 4.1 | SWING CHECK VALVE  | 1.2 | VENT OUTLET             |
| 1   | ANCHORABLE LEG     | 1.1 | WATER INLET             |

PACIFIC STEAM EQUIPMENT INC.  
Santa Fe Springs, California, USA

PACIFICPAC EXPLODED VIEW

|             |              |                    |
|-------------|--------------|--------------------|
| Dr. by: RY  | Ck. by:      | App. by:           |
| Scale: NONE | AUG. 3, 1999 | DRAWING NO: PCP18A |

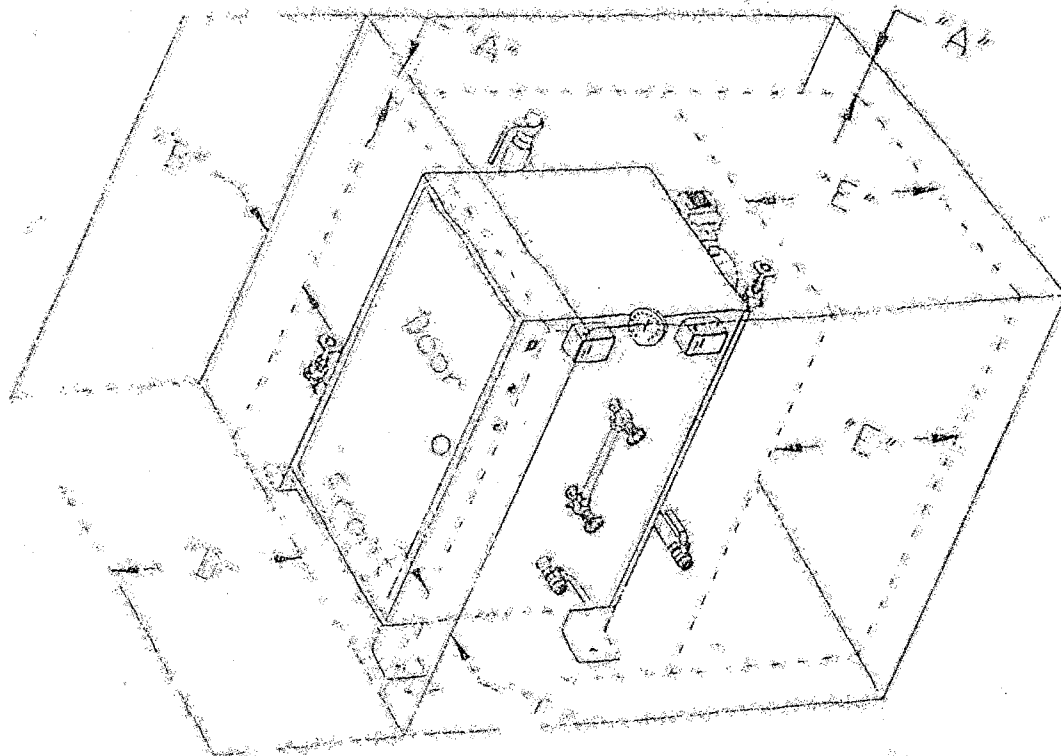
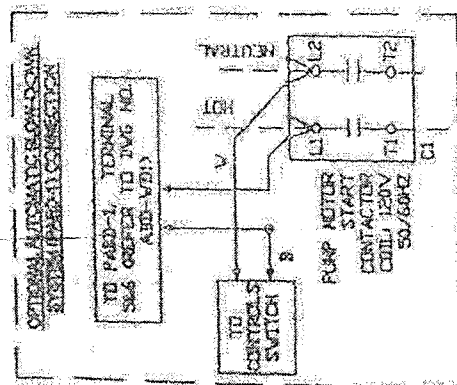


Figure 2. Minimum Spacing Requirement To Combustible Surface

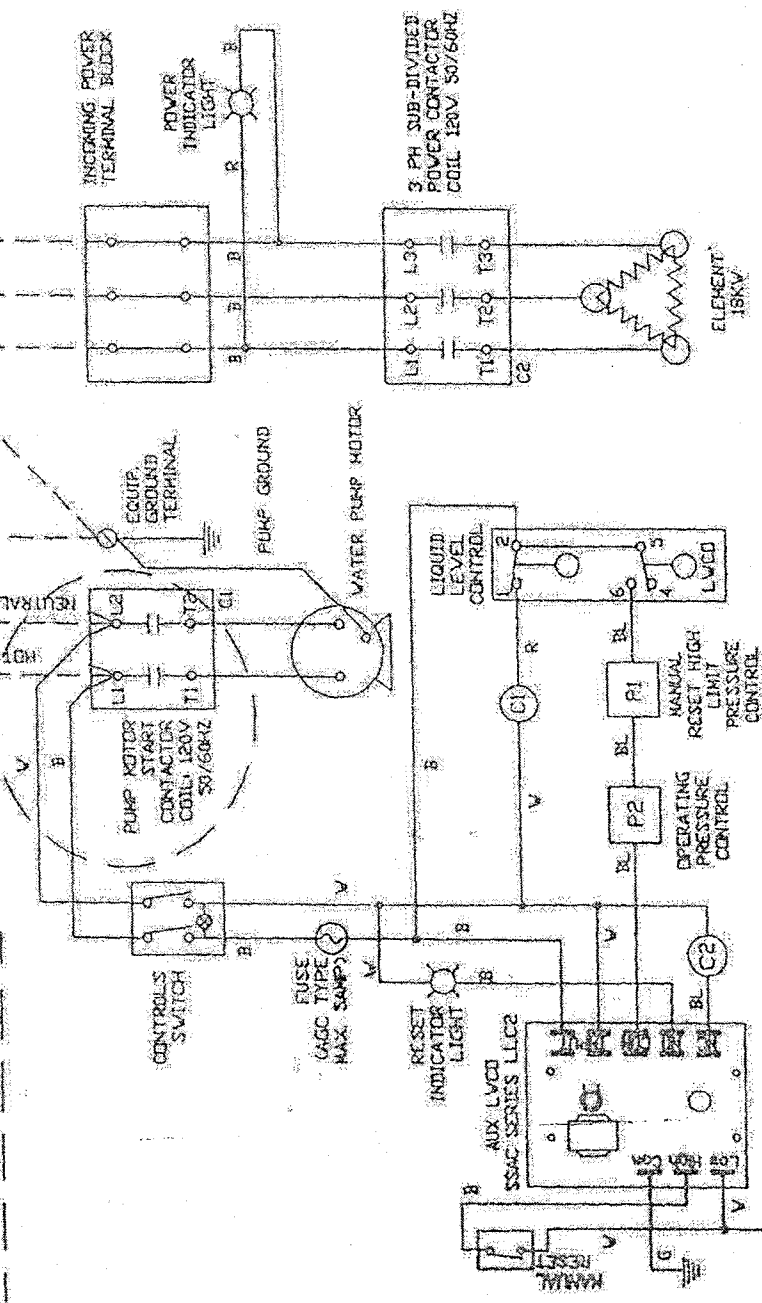
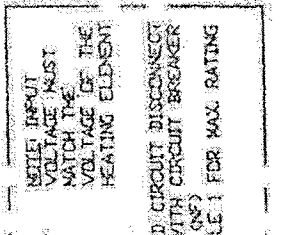
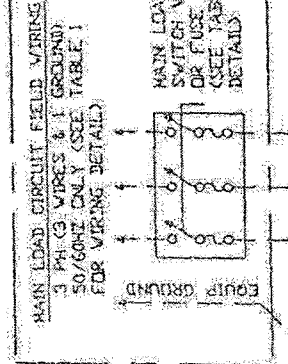
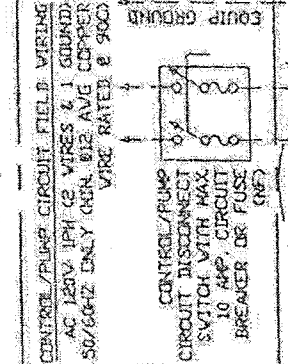
|   |                                                               |
|---|---------------------------------------------------------------|
| A | 2" clearance above top of boiler.                             |
| B | 2" clearance of left side of boiler.                          |
| C | 2" clearance of right side of boiler.                         |
| D | 21" clearance in front of door for servicing heating element. |
| E | 18" clearance in rear of the boiler.                          |

\*Flooring type may be non-combustible or combustible type.

\*This boiler is acceptable for alcove installation, but not for closet installation.



CAUTION: RISK OF ELECTRIC SHOCK -  
MORE THAN ONE DISCONNECT SWITCHES  
EQUIPMENT FOR SERVICING. ALWAYS  
TURN OFF ALL DISCONNECT SWITCHES  
WHEN WORKING ON ANY ELECTRICAL CONTROLS.



PACIFIC STEAM EQUIPMENT, INC.  
10545 PANTHER AVE.  
SANTA FE SPRINGS, CA 90670  
DATE: 8/16/99  
BY: J. B. BROWN  
MODEL: NDL PACIFIC-18  
WIRING DIAGRAM

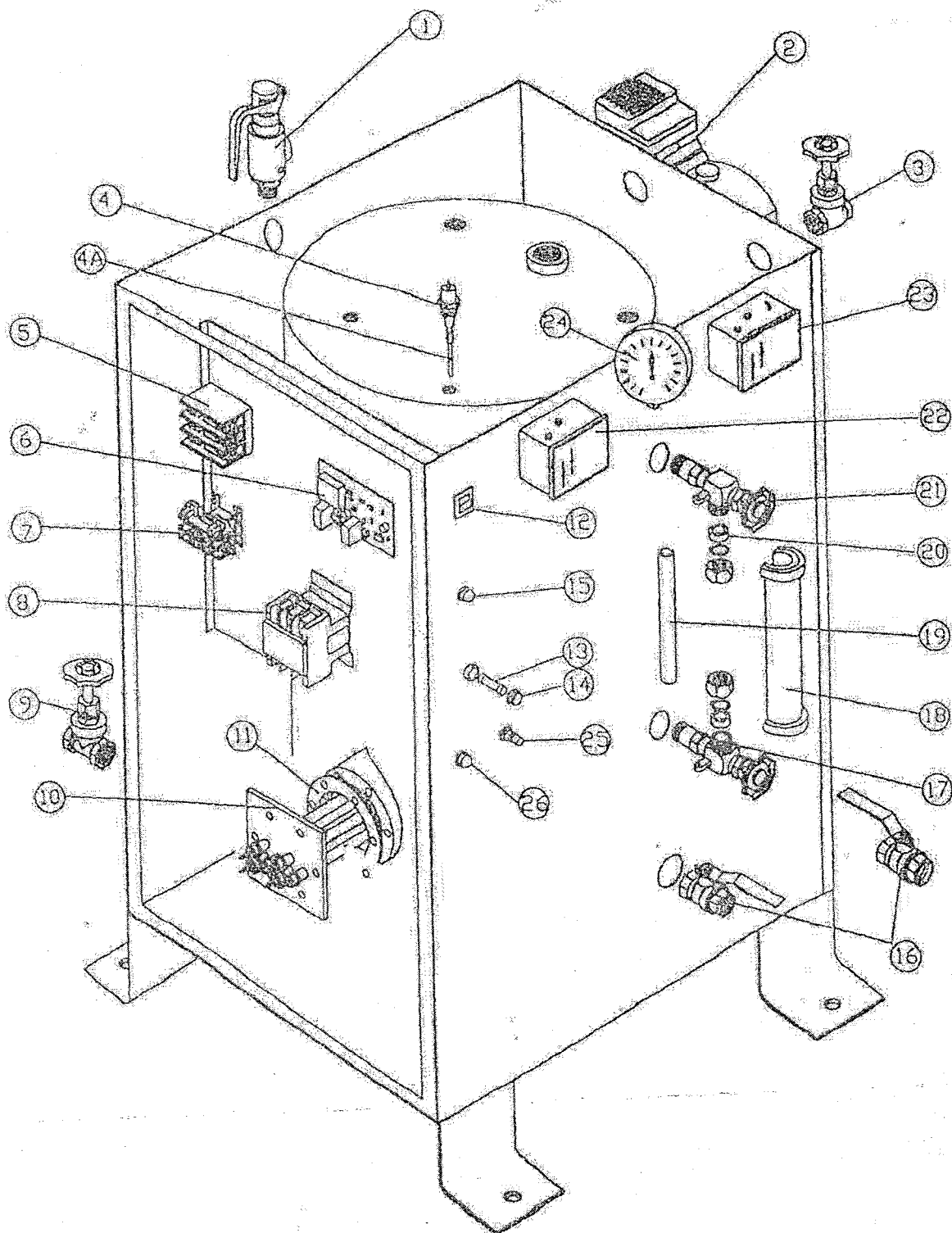
TABLE 1: FIELD WIRING DETAIL  
(90C TEMP RATED COPPER WIRE ONLY)

| POWER VOLTAGE (KV) | OVER-CURRENT PROTECTION (AMP) | WIRE SIZE (AWG) | WIRE SIZE (CMIL) |
|--------------------|-------------------------------|-----------------|------------------|
| 17                 | 600                           | 2/0             | 67,370           |
| 18                 | 600                           | 1/0             | 107,600          |
| 19                 | 600                           | 3/4             | 167,810          |
| 20                 | 600                           | 3/4             | 167,810          |
| 21                 | 600                           | 3/4             | 167,810          |
| 22                 | 600                           | 3/4             | 167,810          |
| 23                 | 600                           | 3/4             | 167,810          |
| 24                 | 600                           | 3/4             | 167,810          |
| 25                 | 600                           | 3/4             | 167,810          |
| 26                 | 600                           | 3/4             | 167,810          |
| 27                 | 600                           | 3/4             | 167,810          |
| 28                 | 600                           | 3/4             | 167,810          |
| 29                 | 600                           | 3/4             | 167,810          |
| 30                 | 600                           | 3/4             | 167,810          |
| 31                 | 600                           | 3/4             | 167,810          |
| 32                 | 600                           | 3/4             | 167,810          |
| 33                 | 600                           | 3/4             | 167,810          |
| 34                 | 600                           | 3/4             | 167,810          |
| 35                 | 600                           | 3/4             | 167,810          |
| 36                 | 600                           | 3/4             | 167,810          |
| 37                 | 600                           | 3/4             | 167,810          |
| 38                 | 600                           | 3/4             | 167,810          |
| 39                 | 600                           | 3/4             | 167,810          |
| 40                 | 600                           | 3/4             | 167,810          |
| 41                 | 600                           | 3/4             | 167,810          |
| 42                 | 600                           | 3/4             | 167,810          |
| 43                 | 600                           | 3/4             | 167,810          |
| 44                 | 600                           | 3/4             | 167,810          |
| 45                 | 600                           | 3/4             | 167,810          |
| 46                 | 600                           | 3/4             | 167,810          |
| 47                 | 600                           | 3/4             | 167,810          |
| 48                 | 600                           | 3/4             | 167,810          |
| 49                 | 600                           | 3/4             | 167,810          |
| 50                 | 600                           | 3/4             | 167,810          |
| 51                 | 600                           | 3/4             | 167,810          |
| 52                 | 600                           | 3/4             | 167,810          |
| 53                 | 600                           | 3/4             | 167,810          |
| 54                 | 600                           | 3/4             | 167,810          |
| 55                 | 600                           | 3/4             | 167,810          |
| 56                 | 600                           | 3/4             | 167,810          |
| 57                 | 600                           | 3/4             | 167,810          |
| 58                 | 600                           | 3/4             | 167,810          |
| 59                 | 600                           | 3/4             | 167,810          |
| 60                 | 600                           | 3/4             | 167,810          |
| 61                 | 600                           | 3/4             | 167,810          |
| 62                 | 600                           | 3/4             | 167,810          |
| 63                 | 600                           | 3/4             | 167,810          |
| 64                 | 600                           | 3/4             | 167,810          |
| 65                 | 600                           | 3/4             | 167,810          |
| 66                 | 600                           | 3/4             | 167,810          |
| 67                 | 600                           | 3/4             | 167,810          |
| 68                 | 600                           | 3/4             | 167,810          |
| 69                 | 600                           | 3/4             | 167,810          |
| 70                 | 600                           | 3/4             | 167,810          |
| 71                 | 600                           | 3/4             | 167,810          |
| 72                 | 600                           | 3/4             | 167,810          |
| 73                 | 600                           | 3/4             | 167,810          |
| 74                 | 600                           | 3/4             | 167,810          |
| 75                 | 600                           | 3/4             | 167,810          |
| 76                 | 600                           | 3/4             | 167,810          |
| 77                 | 600                           | 3/4             | 167,810          |
| 78                 | 600                           | 3/4             | 167,810          |
| 79                 | 600                           | 3/4             | 167,810          |
| 80                 | 600                           | 3/4             | 167,810          |
| 81                 | 600                           | 3/4             | 167,810          |
| 82                 | 600                           | 3/4             | 167,810          |
| 83                 | 600                           | 3/4             | 167,810          |
| 84                 | 600                           | 3/4             | 167,810          |
| 85                 | 600                           | 3/4             | 167,810          |
| 86                 | 600                           | 3/4             | 167,810          |
| 87                 | 600                           | 3/4             | 167,810          |
| 88                 | 600                           | 3/4             | 167,810          |
| 89                 | 600                           | 3/4             | 167,810          |
| 90                 | 600                           | 3/4             | 167,810          |
| 91                 | 600                           | 3/4             | 167,810          |
| 92                 | 600                           | 3/4             | 167,810          |
| 93                 | 600                           | 3/4             | 167,810          |
| 94                 | 600                           | 3/4             | 167,810          |
| 95                 | 600                           | 3/4             | 167,810          |
| 96                 | 600                           | 3/4             | 167,810          |
| 97                 | 600                           | 3/4             | 167,810          |
| 98                 | 600                           | 3/4             | 167,810          |
| 99                 | 600                           | 3/4             | 167,810          |
| 100                | 600                           | 3/4             | 167,810          |

WIRING COLOR CODE

| WIRE COLOR | WIRE COLOR CODE |
|------------|-----------------|
| WHITE      | W               |
| GREEN      | G               |
| RED        | R               |
| BLACK      | B               |
| BLUE       | BL              |

FIGURE 5. Exploded Drawing (PSE-12 & 18)



NOT TO SCALE



## Operation

1. Do not use any boiler cleaning compounds.
2. Do not use distilled water to operate boiler.
3. Make sure that the blow-down valves (both #1 & #2), cold water mixing valve, and steam outlet valve are closed; and the water supply valves (both on boiler and make-up water tank side) are open. If you find the valves positioned differently, manually adjust the position on each valve.
4. With both disconnect switches (the main load circuit and control/pump circuit) in the "ON" position, turn on the boiler switch located on the front side of the boiler. If power supply is connected properly, a glowing power indicator light on the right side of the boiler will illuminate.
5. You will hear the sound of the water pump running and filling the water to approximately half way on the sight glass.

Note: Make sure water is flowing freely in the water line. Running the pump dry, without water, will severely damage the water pump. Do not use distilled water to operate the boiler.

6. This boiler is equipped with a Manual Reset Low Water Control. If the Reset Indicator Lamp is on during the start-up period, press the Manual Reset Low Water Switch until the Reset Indicator Lamp goes off to energize the heating element(s).
7. Allow 15 to 20 minutes for boiler to generate desired steam pressure. Upon reaching the operational pressure range, automatic control will switch off the main element contactor.
8. Open the steam outlet valve slowly and use the steam as needed.
9. A daily blow-down of the boiler is recommended (refer to Blow-Down Procedure in this manual.)

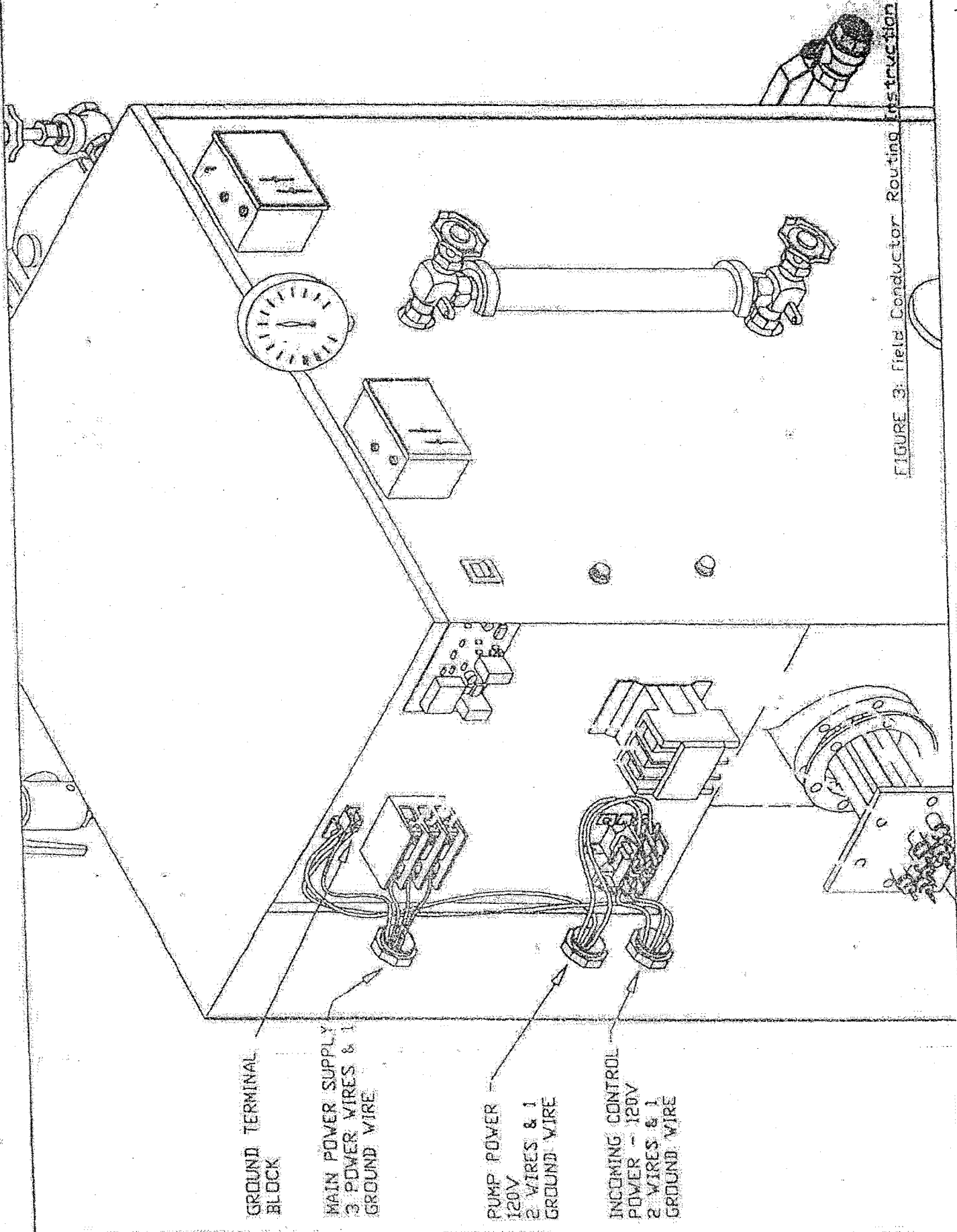


FIGURE 3: Field Conductor Routing Instruction

# Parts List

PSE-18 (208V with 120V control)

| REFERENCE NO. | PART NO.     | DESCRIPTION                              |
|---------------|--------------|------------------------------------------|
| 1             | 2920221      | Safety Valve, 100 PSI, 1/2" x 1"         |
| 2             | 150          | McDonnell Miller Control                 |
| 3             | 45T12        | Globe Valve, 1/2"                        |
| 4             | 3B1A         | Probe                                    |
| 4A            | ROD-712      | Probe Rod, 7-1/2"                        |
| 5             | 5A672        | Power Distribution Block                 |
| 6             | LLC24B1F100N | Circuit Board, AUX. LWCO, 120V           |
| 7             | DP2030B5011  | Contactor, 120V Coil, 2-Pole             |
| 8             | ACC433UMM20  | Contactor, 120V Coil, 3-Pole             |
| 9             | 1510         | Gate Valve, 1"                           |
| 10            | E18208       | Element, 18 kW 208V 3 phase              |
| 11            | EG           | Element Gasket                           |
| 12            | 2600A11E     | Boiler Main Switch                       |
| 13            | AGC-5        | Fuse                                     |
| 14            | HKP          | Fuse Holder                              |
| 15            | 1051A1       | Power Indicator Light                    |
| 16            | 8010         | Ball Valve, 1"                           |
| 17            | 946          | Glass Fixture - Lower, 1/2"              |
| 18            | SGP-614      | Polycarbon Sight Glass Protector, 6-1/4" |
| 19            | SG-614       | Sight Glass 6-1/4"                       |
| 20            | TOPOG-T      | Teflon Washer With Brass Ring            |
| 21            | 905          | Glass Fixture - Upper, 1/2"              |
| 22            | L404A1396    | Pressuretrol-Operating                   |
| 23            | L404C1162    | Pressuretrol w/ manual Reset             |
| 24            | 974          | Pressure Gauge, 160 PSI, 3-1/2"          |

## Maintenance

Warning: Risk of electric shock – more than one disconnect switches are required to de-energize the equipment for servicing.

Before performing the following maintenance procedures, make sure that the main load circuit disconnect switch, control/pump circuit disconnect switch and boiler switch are placed at "OFF" position.

### *Daily maintenance*

1. Blow down (refer to Blow Down Procedure).
2. Check the water level on the boiler and the make-up water tank frequently.
3. Check for any leaks from sight glass.
4. If leaks are found, tighten the sight glass fixture nuts or replace the sight glass with gaskets.

### *Every 3 to 6 month maintenance*

1. Clean out the tank and heating elements manually.
  - a. Carefully remove the conductors and the bolts from heating elements. (Before disconnecting the conductors from each element, make a note of the original wiring arrangement.)
  - b. Carefully pull out the heating elements from the tank.
  - c. Remove scale from the tank; if necessary, scrape them out.
  - d. Remove and clean foreign material from each heating element coil and the flange (use soft wire brush and avoid using sharp force.)
  - e. Apply Teflon paste to both sides of the "new gasket".
  - f. Install the clean elements back into the drum and secure it with 6 bolts per element.
  - g. Connect conductors back to the element (refer to your notes for rewiring.)
2. Clean the McDonnell & Miller Control
  - a. Carefully remove 8 bolts from the unit.
  - b. Detach upper part from the unit.
  - c. Clean out the chamber.
  - d. Check for proper operation of the float ball. Repair or replace defective parts.
  - e. Re-assemble the unit with a "new gasket".
  - f. Check for any loosened electrical connections. Tighten them if necessary.
3. Clean the probe:
  - a. Remove probe located on the top of the boiler tank with a spark plug wrench (13/16" socket wrench.) Inspect for any scale build-up. Carefully remove scale from the probe. In any case, do not try to break up the scale with a hammer or any means of sharp force.

## Blow-Down Procedure

A daily blow-down is an essential part of steam operation. It is the best preventive maintenance you can give to your boiler. It will lengthen the life of the boiler, and will prevent boiler from malfunction, which arises due to scale build-up. Performing blow-down removes most scale sediment; however, it does not remove them completely. You must perform manual clean out periodically depending on the condition of your local water situation. We recommend that you perform manual clean out every 3 to 6 months. Please refer to maintenance section for detailed explanation.

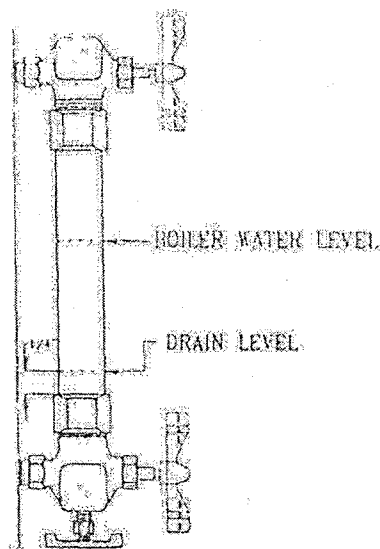
### Precautions

Before starting boiler blow-down procedure, the following precautions should be observed:

1. PacificPac is equipped with a complete, easy to operate blow-down system. However, extreme care should be taken while performing the blow-down.
2. Wear gloves and goggles to prevent injuries.
3. The boiler is under high pressure and high temperature. Discharge only to a blow-down tank or to a safe discharge. If blowing down into a receptacle, allow pressure to decrease to 10 Psig before opening blow-down valve.
4. Blow-down valve(s) must be opened slowly at first and not in one fast stroke.
5. Never leave boiler unattended while performing blow-down procedure.

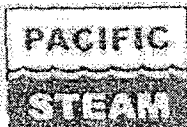
### Procedure

1. Turn off the main power switch and boiler switch.
2. Open the cold water-mixing valve first. Then open the blow-down valve(s) slowly by turning the handle until valve(s) is fully opened for approximately 3 seconds, and then turn back to starting position to close. Repeat the process until water level reaches bottom of sight glass (refer to figure on the right.)  
Note: Since PacificPac has its blow-down valves connected to blow-down tank of drainage system, you can perform the blow-down at operating pressure (80 Psig).
3. When discharge is complete, make sure blow-down valve is closed completely followed by the cold water mixing valve.



### Note:

The above procedure should be performed with caution and preferably at the end of the working day. For the first few days, we recommend two blow-downs per day to clean the inside of the boiler.



# PACIFIC STEAM EQUIPMENT, INC.

## Limited Warranty

Pacific Steam Equipment, Inc. (PSE) warrants all new PSE equipment against defects in workmanship or materials as follows:

Boilers - 90 days electrical, 12 months non-electrical

Tanks - 12 months

Irons - 6 months

from the date of sale to an original end user with the limitations provided hereinafter. No other warranty or liability applies unless specified in a written statement signed by an officer of Pacific Steam Equipment, Inc.

Products distributed and not manufactured by PSE are covered under their respective manufacturers' warranties.

All PSE products submitted for warranty consideration must be accompanied by a copy of the invoice/sales receipt.

Limitations: The warranty of PSE is contingent upon certified installation, operation, and proper maintenance of equipment under normal operating conditions. Complete installation and service records should be kept in the event any warranty claims arise. The warranty does not apply to any product that has been subject to misuse, damage by corrosion, neglect, accidental damage, unauthorized repair, tampering, or not operating within specifications provided; damaged by fire, flood, earthquakes, electrical surges, or such other causes beyond the control of PSE; that have been altered or repaired in any way and; that are normally expendable in the usual course of operation. Expendable items include, but are not limited to, gaskets, sight glass, cords, hoses, fabrics or cover materials. Preventative maintenance activities, if required, are not covered by warranty. Warranties can not be honored for products in which serial numbers, manufacturing dates or other means of identification have been altered or removed. The warranty period on each replacement equipment or part in fulfillment of the warranty on new equipment or parts shall be for the un-expired portion of the original warranty.

PSE is not liable for labor or other costs incurred in the removal, reinstallation, repair, or damages of any type whatsoever including incidental or consequential damages.

Equipment or parts to be returned must be accompanied by factory authorization. An authorization may be obtained only from the sales office of Pacific Steam Equipment, Inc. Defective equipment or parts returned to PSE with freight prepaid will be repaired or replaced at our discretion. Such replacement or repair is the exclusive remedy available from PSE.

Obtain return authorization by contacting Pacific Steam Equipment, Inc.

Tel: 562-906-9292

Fax: 562-906-9223

Email: [sales@pacificsteam.com](mailto:sales@pacificsteam.com)

Return the defective equipment or parts with description of problem and copy of invoice/sales receipt to:

Pacific Steam Equipment, Inc.

Attn: RMA

10848 Painter Avenue

Santa Fe Springs, CA 90670



# PERMIT UPDATE

Date Update Issued 11/6/14  
Control # C-14-003514+F  
Permit # 14-3185+F

IDENTIFICATION Block: 671 Lot: 1.01 Qualifier \_\_\_\_\_  
Work Site Location: 56 CHAMBERS BRIDGE RD. Actual Men's Contractor NOVA CONSTRUCTION INC  
Warehouse Tenant Permit Brick Township, NJ Address 8 High Street Suite D Mullica Hill NJ 08062  
Owner in Fee FEDERAL REALTY INVESTMENT TRUST Telephone: (856) 678-0400  
1626 EAST JEFFERSON ST ROCKVILLE NJ Lic. No. or Bldrs. Reg. No. \_\_\_\_\_  
20852 Federal Employee No. \_\_\_\_\_  
Telephone: \_\_\_\_\_

Is hereby granted permission to perform the following work:

- ☐ BUILDING ☒ PLUMBING ☐ LEAD HAZARD ABATEMENT  
☒ ELECTRICAL ☒ FIRE PROTECTION ☐ DEMOLITION  
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

DESCRIPTION OF WORK:

STEAM TABLE

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 \$5,800

Construction Official

11/5/14  
Date

## PAYMENTS (Office Use Only)

|                  |        |
|------------------|--------|
| Building         | \$0    |
| Electrical       | \$135  |
| Plumbing         | \$80   |
| Fire Protection  | \$135  |
| Elevator Devices | \$0    |
| Other            | \$0.00 |
| DCA Training Fee | \$12   |
| CO Fee           |        |
| Other            | \$0    |
| Total            | \$362  |
| Check No.        |        |
| Cash             | \$0    |
| Credit           | \$0    |
| Collected By     |        |

U.C.C. F170  
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

## REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☒ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☒ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☒ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

11/05/14 12:07 PM 0013300000  
NOVA SERV-010  
PLUMBING \$80.00  
FIRE \$135.00  
ELECTR \$135.00  
DCA TOTAL \$362.00  
CASH \$0.00  
TOTAL \$362.00  
11.55



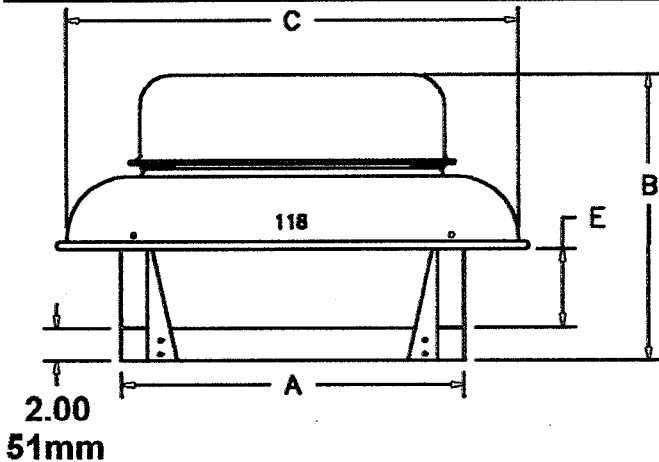
**TAG: EF**

Acme Engineering and Manufacturing Corporation  
P.O. Box 978, Muskogee, OK 74402

Samuel Tepp Assoc LLC

Print Date: 9/30/2014 7:15:07 AM

Project: Mens Whse Brick  
Location:  
Customer: Samuel Tepp Assoc LLC  
Architect:  
Engineer:  
Contractor:  
Submitted by: Paul Cenci



Elevation View

| A     | B     | C     | E    |
|-------|-------|-------|------|
| 21.00 | 16.38 | 27.75 | 4.81 |

DIMENSIONS (inches)

Rough Opening: 16.50 X 16.50

PRN118 1/4 Hp 115/Single Phase/60 Hz/ODP 1 Speed w/TOL Standard Efficiency Motor RPM: 1750 SSC Not Mounted Not Wired 115V 6A 120-55

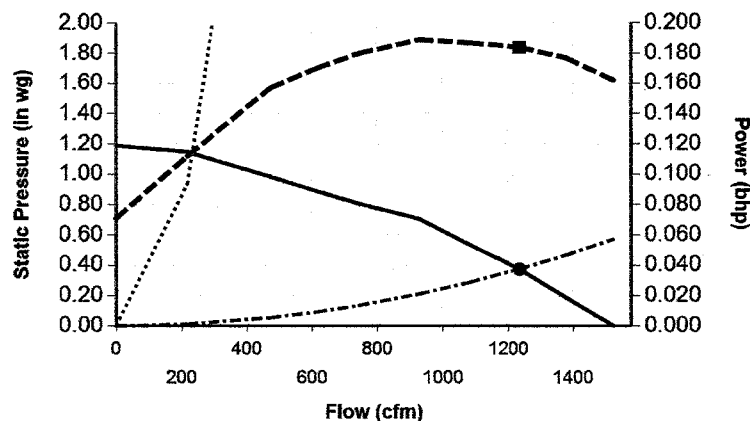
PERFORMANCE (Altitude = 0 ft, Temperature = 68 Degrees F, Density = 0.075 lb/ft3)

| Qty | Model Size | Volume<br>(cfm) | SP<br>(in wg) | Power<br>(bhp) | Speed<br>(rpm) | TS<br>(fpm) | OV<br>(fpm) | Weight<br>(lbs) | Motor Info. |       | Fan Rating: UL705 CUL705 CSA |    |      |      |        |
|-----|------------|-----------------|---------------|----------------|----------------|-------------|-------------|-----------------|-------------|-------|------------------------------|----|------|------|--------|
|     |            |                 |               |                |                |             |             |                 | HP          | Volts | Phase                        | Hz | Encl | RPM  | Sp/Wdg |
| 1   | PRN118     | 1235            | 0.375         | 0.184          | 1661           | 5057        | 799         | 66.00           | 1/4         | 115   | 1                            | 60 | ODP  | 1750 | 1SPD   |

SOUND (\*In free space @ 5 feet / 1.5 Meters)

| Octave      | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | LwA  | dBA* | Sones* | Static Eff | Total Eff |
|-------------|------|------|------|------|------|------|------|------|------|------|--------|------------|-----------|
| Sound Power | 81.1 | 80.3 | 76.6 | 72.3 | 68.1 | 65.7 | 57.9 | 51.7 | 74.8 | 63.3 | 10.2   | 39.70      | 43.90     |

The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5ft) in a hemispherical free field calculated per AMCA Standard 301. Values are shown for Installation Type A: free inlet hemispherical sone levels. The AMCA certified ratings seal applies to sone ratings only.



— Performance    --- System    ● Operating Point  
-- Power    ..... Min. Performance    ■ Operating Power





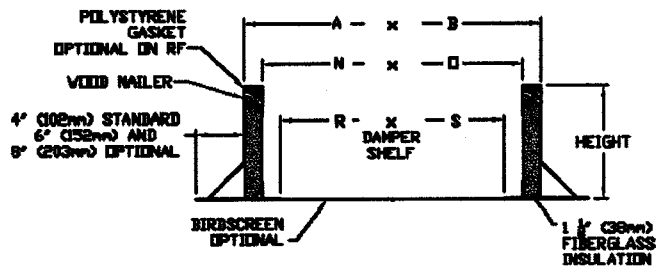
**TAG: EF**

Acme Engineering and Manufacturing Corporation  
P.O. Box 978, Muskogee, OK 74402

Project: Mens Whse Brick  
Location:  
Customer: Samuel Tepp Assoc LLC  
Architect:  
Engineer:  
Contractor:  
Submitted by: Paul Cenci

Samuel Tepp Assoc LLC

Print Date: 9/30/2014 7:15:15 AM



Elevation View

| A     | B     | N     | O     | R     | S     |
|-------|-------|-------|-------|-------|-------|
| 19.50 | 19.50 | 16.50 | 16.50 | 13.50 | 13.50 |

DIMENSIONS (inches)

C 19.5 x 19.5 Galvanized Curb Roof Flashing -- Curb Height 12"

| Qty | Model Size                                                     |
|-----|----------------------------------------------------------------|
| 1   | C 19.5 x 19.5 Galvanized Curb Roof Flashing -- Curb Height 12" |

## C

### Curb, Prefabricated

#### Standard Construction Features

- 1-1/2" fiberglass insulation R-6 Value, 3PCF (N/A with Vented Curb)
- 1/4" polystyrene gasket (Top Ledge) SF Style
- 2 x 2 wood nailer (Top Ledge) RF Style
- 8" minimum curb height
- Constructed of 18 gauge galvanized steel or .063 Aluminum
- Continuous welded seams
- Damper shelf
- Integral base plate
- Two-year limited warranty

#### Options & Accessories

- Roof Flashing
- Curb Height-12"

|                 |
|-----------------|
| Weight<br>(lbs) |
| 27.00           |



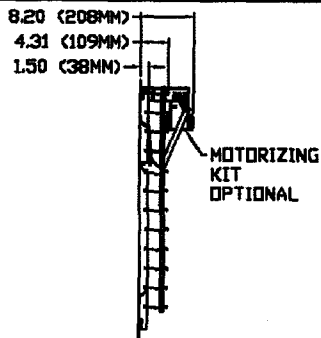
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P.O. Box 978, Muskogee, OK 74402

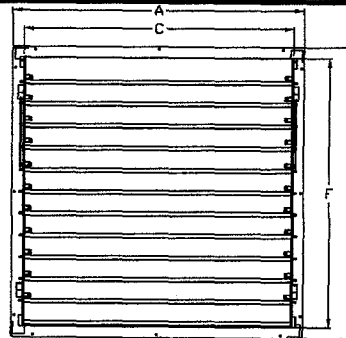
Project: Mens Whse Brick  
Location:  
Customer: Samuel Tepp Assoc LLC  
Architect:  
Engineer:  
Contractor:

Samuel Tepp Assoc LLC

Print Date: 9/30/2014 7:15:14 AM Submitted by: Paul Cenci



Elevation View



Elevation View

| A     | C     | D     | F     |
|-------|-------|-------|-------|
| 16.00 | 13.00 | 16.00 | 13.00 |

DIMENSIONS (inches)

AR 16 x 16 Damper

| Qty | Model Size        |
|-----|-------------------|
| 1   | AR 16 x 16 Damper |

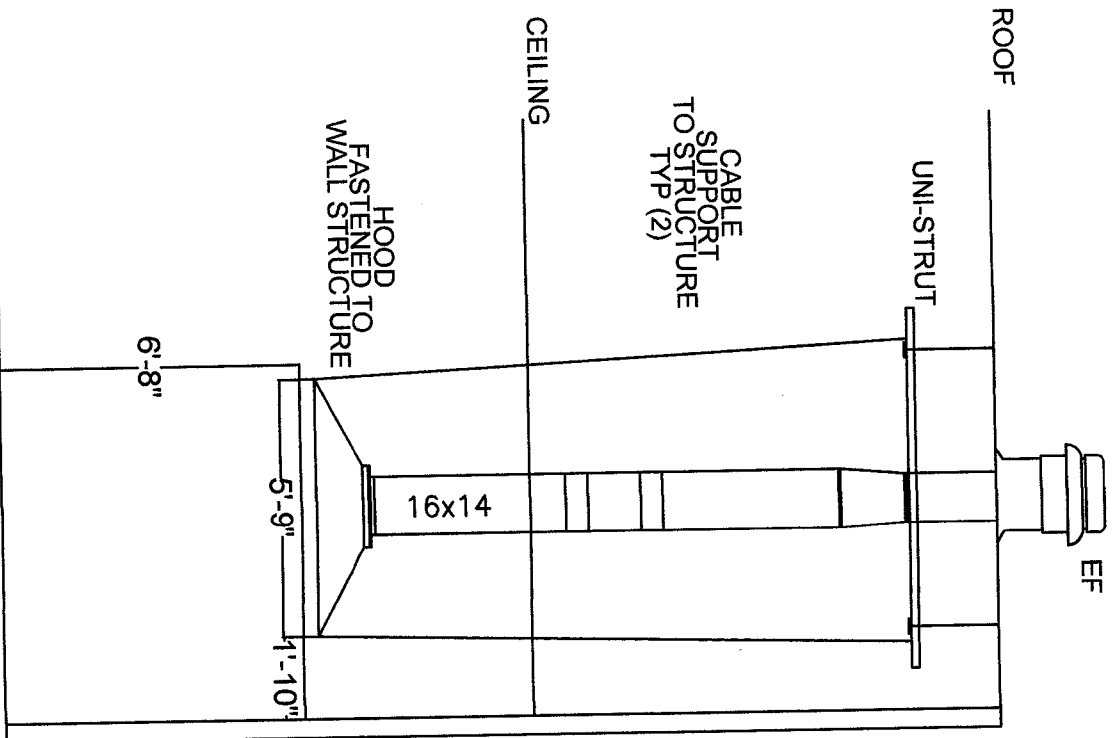
## AR

### Back Draft Damper

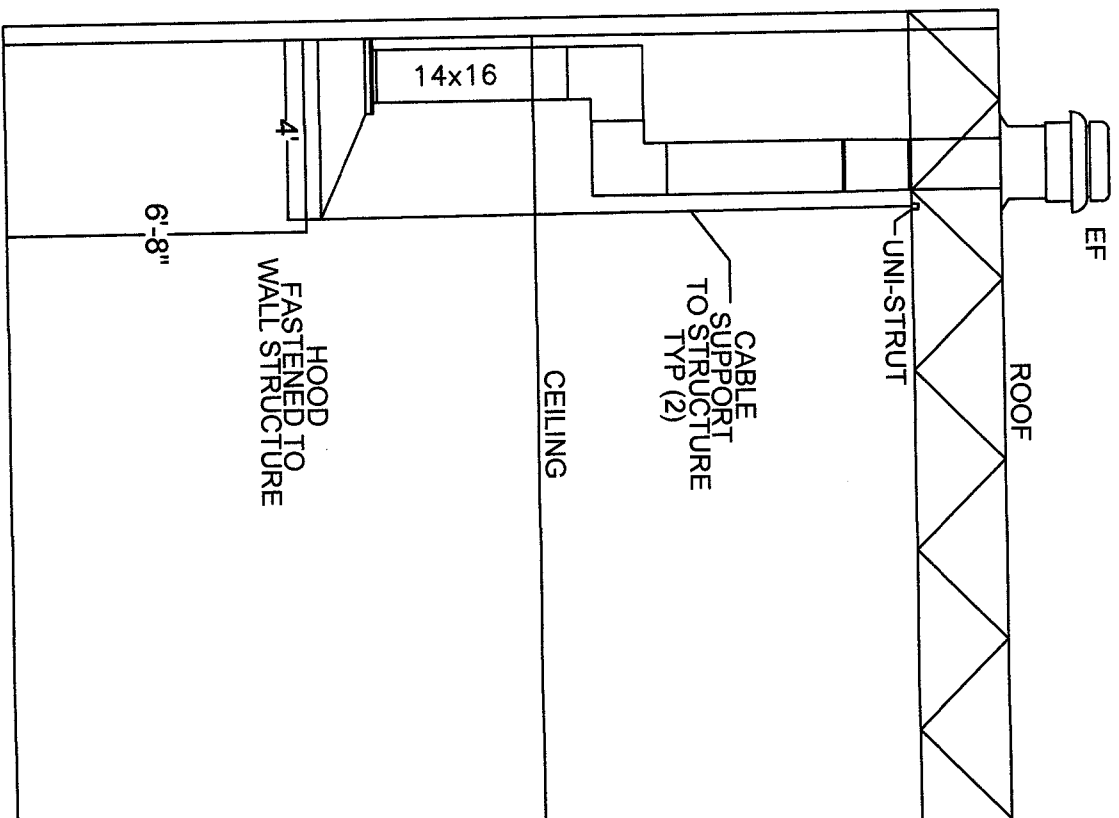
#### Standard Construction Features

2 year Fan/Motor Warranty  
All aluminum multiple blade construction  
Flanged style for flushed mounting  
Maximum velocity 1500 feet per minute  
Nylon bearings and stainless steel bearing pins  
Precision balanced full opening blades

| Weight<br>(lbs) |
|-----------------|
| 4.00            |



FRONT



SIDE

L.S. MECHANICAL CORP.  
51 LAFAYETTE STREET, CARTERET NJ 07008

MENS WAREHOUSE  
BRICK, NJ

|                         |                         |
|-------------------------|-------------------------|
| DATE: 10/28/14          | DRAWN BY: 10            |
| REVIEWED: 10            | APPROVED BY: 10         |
| SCALE: 1/4" = 1'-0"     | DATE: 10/28/14          |
| PROJECT: MENS WAREHOUSE | PROJECT: MENS WAREHOUSE |
| SHOP DRAWING            | SHOP DRAWING            |
| HOOD DETAIL             | HOOD DETAIL             |



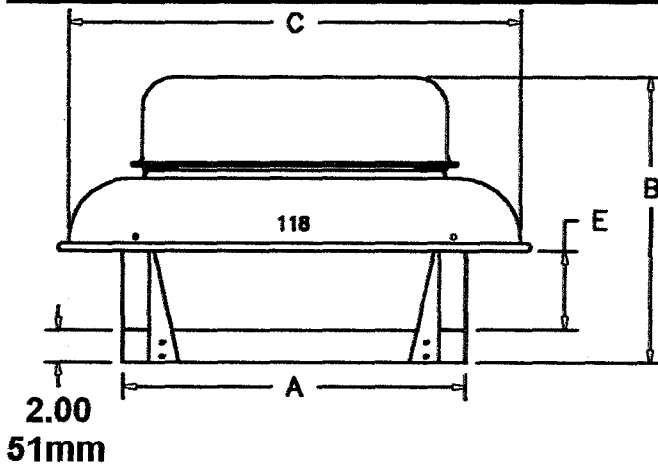
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Print Date: 9/30/2014 7:15:07 AM Submitted by: Paul Cenci



Elevation View

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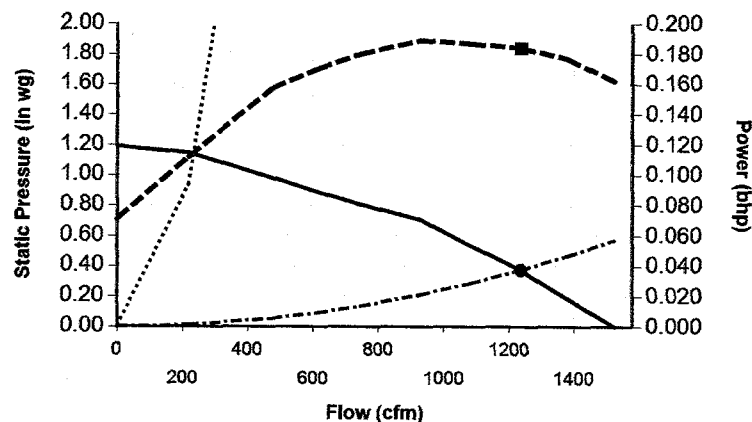
PERFORMANCE (Altitude = 0 ft, Temperature = 68 Degrees F, Density = 0.075 lb/ft<sup>3</sup>)

| Qty | Model Size | Volume (cfm) | SP (in wg) | Power (bhp) | Speed (rpm) | TS (fpm) | OV (fpm) | Weight (lbs) | Motor Info. Fan Rating: UL705 CUL705 CSA |       |       |    |      |      |        |
|-----|------------|--------------|------------|-------------|-------------|----------|----------|--------------|------------------------------------------|-------|-------|----|------|------|--------|
|     |            |              |            |             |             |          |          |              | HP                                       | Volts | Phase | Hz | Encl | RPM  | Sp/Wdg |
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 --- Power    ..... Min. Performance    ■ Operating Power



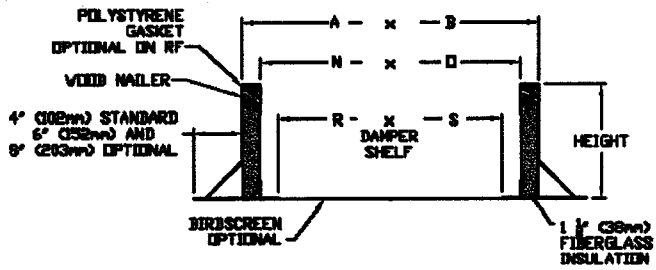
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Location:  
Customer: Samuel Tepp Assoc LLC  
Architect:  
Engineer:  
Contractor:

Samuel Tepp Assoc LLC

Print Date: 9/30/2014 7:15:15 AM Submitted by: Paul Cenci



Elevation View

| A     | B     | N     | O     | R     | S     |
|-------|-------|-------|-------|-------|-------|
| 19.50 | 19.50 | 16.50 | 16.50 | 13.50 | 13.50 |

DIMENSIONS (inches)

C 19.5 x 19.5 Galvanized Curb Roof Flashing -- Curb Height 12"

| Qty | Model Size                                                     |
|-----|----------------------------------------------------------------|
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### Curb, Prefabricated

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- 2 x 2 wood nailer (Top Ledge) RF Style
- 8" minimum curb height
- Constructed of 18 gauge galvanized steel or .063 Aluminum
- Continuous welded seams
- Damper shelf
- Integral base plate
- Two-year limited warranty

#### Options & Accessories

- Roof Flashing
- Curb Height-12"

Weight  
(lbs)  
27.00



**TAG: EF**

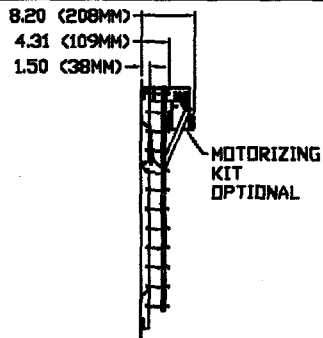
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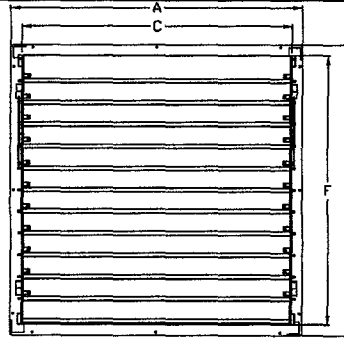
Samuel Tepp Assoc LLC

Print Date: 9/30/2014 7:15:14 AM

Submitted by: Paul Cenci



Elevation View



Elevation View

| A     | C     | D     | F     |
|-------|-------|-------|-------|
| 16.00 | 13.00 | 16.00 | 13.00 |

DIMENSIONS (inches)

AR 16 x 16 Damper

| Qty | Model Size        |
|-----|-------------------|
| 1   | AR 16 x 16 Damper |

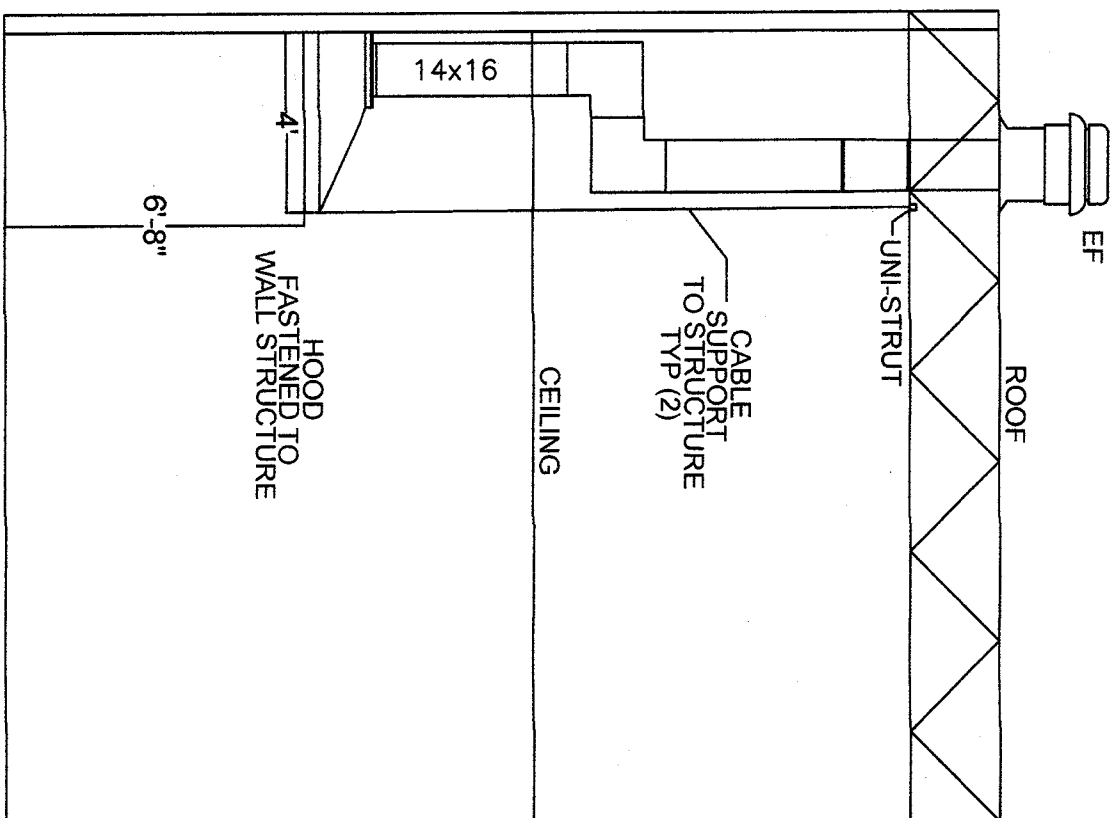
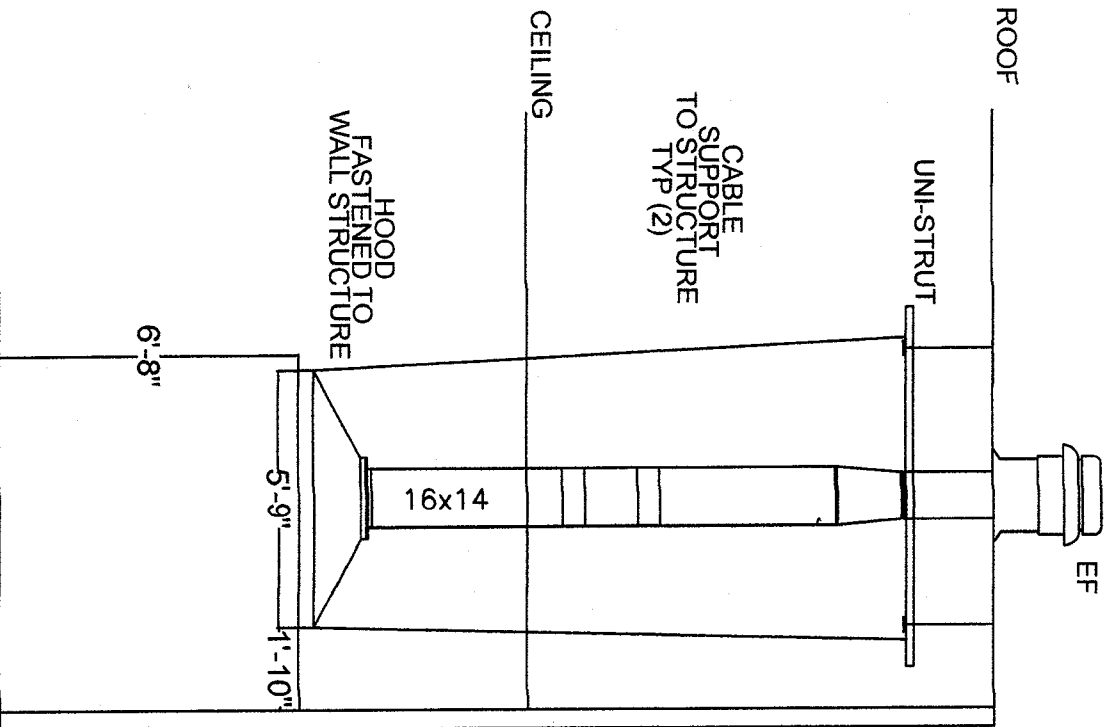
## AR

### Back Draft Damper

#### Standard Construction Features

- 2 year Fan/Motor Warranty
- All aluminum multiple blade construction
- Flanged style for flushed mounting
- Maximum velocity 1500 feet per minute
- Nylon bearings and stainless steel bearing pins
- Precision balanced full opening blades

| Weight<br>(lbs) |
|-----------------|
| 4.00            |



FRONT

SIDE

L.S. MECHANICAL CORP.

51 LAFAYETTE STREET, CARTERET NJ 07008

P: (201) 960-9327  
F: (201) 960-9327

MENS WAREHOUSE  
BRICK, NJ

|                |                 |
|----------------|-----------------|
| DATE: 10/29/14 | DRAWN BY: 10    |
| REVISION: 1    | APPROVED BY: 10 |
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| REVISION: 99   | APPROVED BY: 10 |
| REVISION: 100  | APPROVED BY: 10 |



# PERMIT UPDATE

Date Update Issued 10/30/14  
Control # C-14-004714  
Permit # 14-3185+E

IDENTIFICATION Block: 671 Lot: 1.01 Qualifier \_\_\_\_\_  
Work Site Location: 56 CHAMBERS BRIDGE RD. Actual Men's Contractor NOVA CONSTRUCTION INC  
Warehouse Tenant Permit Brick Township, NJ Address 8 High Street Suite D Mullica Hill NJ 08062  
Owner/in Fee FEDERAL REALTY INVESTMENT TRUST  
1626 EAST JEFFERSON ST ROCKVILLE NJ Telephone: (856) 678-0400  
20852 Lic. No. or Bldrs. Reg. No. \_\_\_\_\_  
Telephone: \_\_\_\_\_ Federal Employee. No. \_\_\_\_\_

Is hereby granted permission to perform the following work:

- |                                                |                                                                    |                                                |
|------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------|
| <input type="checkbox"/> BUILDING              | <input type="checkbox"/> PLUMBING                                  | <input type="checkbox"/> LEAD HAZARD ABATEMENT |
| <input checked="" type="checkbox"/> ELECTRICAL | <input type="checkbox"/> FIRE PROTECTION                           | <input type="checkbox"/> DEMOLITION            |
| <input type="checkbox"/> ELEVATOR DEVICES      | <input type="checkbox"/> ASBESTOS ABATEMENT<br>(Subchapter 8 only) | <input type="checkbox"/> OTHER                 |

## DESCRIPTION OF WORK:

COMMUNICATION POINTS - MEN'S WAREHOUSE

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 \$1,000

Daniel Newman Jr  
Construction Official

10/30/14  
Date

U.C.C. F170  
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

## PAYMENTS (Office Use Only)

|                  |             |
|------------------|-------------|
| Building         | \$0         |
| Electrical       | \$75        |
| Plumbing         | \$0         |
| Fire Protection  | \$0         |
| Elevator Devices | \$0         |
| Other            | \$0.00      |
| DCA Training Fee | \$2         |
| CO Fee           |             |
| Other            | \$0         |
| Total            | \$77        |
| Check No.        | <u>CASH</u> |
| Cash             | \$0         |
| Credit           | \$0         |
| Collected By     |             |

## REQUIRED INSPECTIONS

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☒ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.



by Office of the Attorney General  
of Consumer Affairs

TO CERTIFY THAT THE  
Exam. of Electrical Contractors  
LICENSED

FITZPATRICK, EL CONTR  
Business Permit

2012 TO 03/31/2015

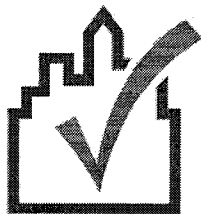
VALID

SIGNATURE

B01471600

Registration Certificate #

DIRECTOR



COMcheck Software Version 3.9.2

# Interior Lighting and Power Compliance Certificate

90.1 (2007) Standard

FILE COPY

## Section 1: Project Information

Project Type: **Alteration**

Project Title : Men's Wearhouse #5225

Construction Site:

Brick Plazaz  
Brick, NJ 08723

Owner/Agent:

Megan Harvilla  
Men's Wearhouse  
3114 King Lane  
Phoenixville, PA 19460  
(610) 933-3396  
meh33@tmw.com

Designer/Contractor:

Nicholas J. Tricarico  
Tricarico Architecture & Design PC  
502 Valley Road  
2nd Floor  
Wayne, NJ 07470  
973-692-0222

## Section 2: Interior Lighting and Power Calculation

| A<br>Area Category                                     | B<br>Floor Area<br>(ft2) | C<br>Allowed<br>Watts / ft2 | D<br>Allowed Watts<br>(B x C) |
|--------------------------------------------------------|--------------------------|-----------------------------|-------------------------------|
| Sales Area (Retail:Sales Area)                         | 4348                     | 1.7                         | 7392                          |
| Toilet Room / Vestibule (Common Space Types:Restrooms) | 259                      | 0.9                         | 233                           |
| Tux / Shoe Storage (Warehouse:Fine Material Storage)   | 239                      | 1.4                         | 335                           |
| Tailor Area (Common Space Types:Workshop)              | 449                      | 1.9                         | 853                           |
| Total Allowed Watts =                                  |                          |                             | 8812                          |

## Section 3: Interior Lighting Fixture Schedule

| A<br>Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast                     | B<br>Lamps/<br>Fixture | C<br># of<br>Fixtures | D<br>Fixture<br>Watt. | E<br>(C X D) |
|---------------------------------------------------------------------------------------|------------------------|-----------------------|-----------------------|--------------|
| Sales Area ( Retail:Sales Area 4348 sq.ft.)                                           |                        |                       |                       |              |
| (N) 2x4 General Sales: A4/A5: (N) 2x4 General Lighting: 48" T8 32W: Electronic:       | 2                      | 30                    | 87                    | 2610         |
| 4' Shirt Bin Lighting: FS4: 4' Shirt Bin Lighting: 48" T8 32W (Super T8): Electronic: | 1                      | 27                    | 30                    | 810          |
| 2' Shirt Bin Lighting: FS2: 2' Shirt Bin Lighting: 24" T8 17W: Electronic:            | 1                      | 3                     | 19                    | 57           |
| Pendants: J: Pendants: Spiral 26W: Electronic:                                        | 4                      | 3                     | 104                   | 312          |
| Sales Area Track: B: Sales Area Track: Wattage based on 12 feet of track              | 0                      | 0                     | 360                   | 360          |
| Show Window Track: B: Show Window Track: Wattage based on 32 feet of track            | 0                      | 0                     | 960                   | Exempt       |
| Exemption:Retail Display Window                                                       |                        |                       |                       |              |
| CD1 - LED: CD1: Recessed Downlight (Fit Rooms): Other:                                | 1                      | 8                     | 30                    | 240          |
| MCAV - LED: MCAV: Suit Wall Wash (MCAV): Other:                                       | 1                      | 13                    | 40                    | 520          |
| MA1-LED: MA1: Sales Display: Other:                                                   | 1                      | 4                     | 22                    | 88           |
| MA2-LED: MA2: Sales Display: Other:                                                   | 2                      | 9                     | 44                    | 396          |
| MA3-LED: MA3: Sales Display: Other:                                                   | 3                      | 16                    | 66                    | 1056         |
| Toilet Room / Vestibule ( Common Space Types:Restrooms 259 sq.ft.)                    |                        |                       |                       |              |
| Toilet Room: D: 1x4 General Lighting: 48" T8 32W: Electronic:                         | 1                      | 2                     | 64                    | 128          |
| (N) 2x4 General BOH: A/A1: (N) 2x4 General Lighting: 48" T8 32W: Electronic:          | 2                      | 1                     | 85                    | 85           |
| Tux / Shoe Storage ( Warehouse:Fine Material Storage 239 sq.ft.)                      |                        |                       |                       |              |
| (N) 2x4 General BOH: A/A1: (N) 2x4 General Lighting: 48" T8 32W: Electronic:          | 2                      | 4                     | 85                    | 340          |
| Tailor Area ( Common Space Types:Workshop 449 sq.ft.)                                 |                        |                       |                       |              |
| (N) 2x4 General BOH: A/A1: (N) 2x4 General Lighting: 48" T8 32W: Electronic:          | 2                      | 6                     | 85                    | 510          |
| Tailor Work Station (E/G): E: Tailor Work Station (E/G): 48" T8 32W: Electronic:      | 1                      | 6                     | 64                    | 384          |
| Tailor Work Station (F): F: Tailor Work Station (F): 48" T8 32W: Electronic:          | 1                      | 2                     | 64                    | 128          |

## Interior Lighting PASSES

**Section 4: Compliance Statement**

*Compliance Statement:* The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

Nicholas J. TRICARICO - TRICARICO ARCHITECTURE  
Name - Title

DESIGN

Signature

4/15/14  
Date

**Section 5: Post Construction Compliance Statement****Record Drawings and Operating and Maintenance Manuals:**

- ☐ 1. Construction documents with record drawings and operating and maintenance manuals provided to the owner.

Lighting Designer or Contractor Name

Signature

Date



# PERMIT UPDATE

Date Update Issued 10/30/14  
Control # C-14-004494  
Permit # 14-3185+D

IDENTIFICATION Block: 671 Lot: 1.01 Qualifier \_\_\_\_\_  
Work Site Location: 56 CHAMBERS BRIDGE RD. Actual Men's Contractor: NOVA CONSTRUCTION INC  
Warehouse Tenant Permit Brick Township, NJ Address: 8 High Street Suite D Mullica Hill NJ 08062  
Owner in Fee: FEDERAL REALTY INVESTMENT TRUST  
1626 EAST JEFFERSON ST. ROCKVILLE NJ Telephone: (856) 678-0400  
20852 Lic. No. or Bldrs. Reg. No. \_\_\_\_\_  
Telephone: \_\_\_\_\_ Federal Employee No. \_\_\_\_\_

Is hereby granted permission to perform the following work:

- ☐ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT  
☒ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION  
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

## DESCRIPTION OF WORK:

- MEN'S WAREHOUSE... add fixtures, receptacles...

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 \$1,200

Construction Official

Date

*Daniel Newman Jr* 10/15/14

U.C.C. F170  
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

## PAYMENTS (Office Use Only)

|                  |          |
|------------------|----------|
| Building         | \$0      |
| Electrical       | \$75     |
| Plumbing         | \$0      |
| Fire Protection  | \$0      |
| Elevator Devices | \$0      |
| Other            | \$0.00   |
| DCA Training Fee | \$0      |
| CO Fee           | \$0      |
| Other            | \$0      |
| Total            | \$75     |
| Check No.        |          |
| Cash             | CASH \$0 |
| Credit           | \$0      |
| Collected By     |          |

## REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☒ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and/or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☒ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☒ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.



# PERMIT UPDATE

Date Update Issued 10/7/14  
Control # C-14-003514+C  
Permit # 14-3185+C

IDENTIFICATION Block: 671 Lot: 1.01 Qualifier \_\_\_\_\_  
Work Site Location: 56 CHAMBERS BRIDGE RD. Actual Men's Contractor NOVA CONSTRUCTION INC  
Warehouse Tenant Permit Brick Township, NJ Address 8 High Street Suite D Mullica Hill NJ 08062  
Owner in Fee FEDERAL REALTY INVESTMENT TRUST Telephone: (856) 678-0400  
1626 EAST JEFFERSON ST ROCKVILLE NJ Lic. No. or Bldrs. Reg. No. \_\_\_\_\_  
20852 Federal Employee. No. \_\_\_\_\_  
Telephone: \_\_\_\_\_

Is hereby granted permission to perform the following work:

- ☒ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT  
☐ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION  
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

## DESCRIPTION OF WORK:

TENANT FIT UP - MEN'S WAREHOUSE ... UPDATE +C - INTERIOR ALTERATIONS

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 \$3,500

Daniel Newman Jr  
Construction Official

10/6/14  
Date

## PAYMENTS (Office Use Only)

|                  |        |
|------------------|--------|
| Building         | \$140  |
| Electrical       | \$0    |
| Plumbing         | \$0    |
| Fire Protection  | \$0    |
| Elevator Devices | \$0    |
| Other            | \$0.00 |
| DCA Training Fee | \$6    |
| CO Fee           |        |
| Other            | \$0    |
| Total            | \$146  |
| Check No.        |        |
| Cash             | \$0    |
| Credit           | \$0    |
| Collected By     |        |

U.C.C. F170  
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

## REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

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2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

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☒ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.



# PERMIT UPDATE

Date Update Issued 9-26-14  
Control # C-14-003514+A  
Permit # +A

14-3185+A

IDENTIFICATION Block: 671 Lot: 1.01 Qualifier \_\_\_\_\_  
Work Site Location: 56 CHAMBERS BRIDGE RD. Actual Men's Contractor NOVA CONSTRUCTION INC  
Warehouse Tenant Permit Brick Township, NJ Address 8 High Street Suite D Mullica Hill NJ 08062  
Owner in Fee FEDERAL REALTY INVESTMENT TRUST  
1626 EAST JEFFERSON ST ROCKVILLE NJ Telephone: (856) 678-0400  
20852 Lic. No. or Bldrs. Reg. No. \_\_\_\_\_  
Telephone: \_\_\_\_\_ Federal Employee No. \_\_\_\_\_

Is hereby granted permission to perform the following work:

- |                                           |                                                                    |                                                |
|-------------------------------------------|--------------------------------------------------------------------|------------------------------------------------|
| <input type="checkbox"/> BUILDING         | <input type="checkbox"/> PLUMBING                                  | <input type="checkbox"/> LEAD HAZARD ABATEMENT |
| <input type="checkbox"/> ELECTRICAL       | <input checked="" type="checkbox"/> FIRE PROTECTION                | <input type="checkbox"/> DEMOLITION            |
| <input type="checkbox"/> ELEVATOR DEVICES | <input type="checkbox"/> ASBESTOS ABATEMENT<br>(Subchapter 8 only) | <input type="checkbox"/> OTHER                 |

## DESCRIPTION OF WORK:

Signaling Devices

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 \$7,750

David Newman Jr  
Construction Official

9/25/14  
Date

U.C.C. F170  
equiv (rev. 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

## PAYMENTS (Office Use Only)

|                  |        |
|------------------|--------|
| Building         | \$0    |
| Electrical       | \$0    |
| Plumbing         | \$0    |
| Fire Protection  | \$100  |
| Elevator Devices | \$0    |
| Other            | \$0.00 |
| DCA Training Fee | \$13   |
| CO Fee           |        |
| Other            | \$0    |
| Total            | \$113  |
| Check No.        |        |
| Cash             | \$0    |
| Credit           | \$0    |
| Collected By     |        |

## REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

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4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

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☒ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.



# PERMIT UPDATE

Date Update Issued 9-26-14  
 Control # C-14-003514+B  
 Permit # +B  
14-31854B

IDENTIFICATION Block: 671 Lot: 1.01 Qualifier \_\_\_\_\_  
 Work Site Location: 56 CHAMBERS BRIDGE RD. Actual Men's Warehouse Tenant Permit Brick Township, NJ Contractor NOVA CONSTRUCTION INC  
 Address 8 High Street Suite D Mullica Hill NJ 08062  
 Owner in Fee FEDERAL REALTY INVESTMENT TRUST Telephone: (856) 678-0400  
1626 EAST JEFFERSON ST ROCKVILLE NJ Lic. No. or Bldrs. Reg. No. \_\_\_\_\_  
20852 Federal Employee. No. \_\_\_\_\_  
 Telephone: \_\_\_\_\_

Is hereby granted permission to perform the following work:

- ☐ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT  
☐ ELECTRICAL ☒ FIRE PROTECTION ☐ DEMOLITION  
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

DESCRIPTION OF WORK:

wet sprinklers

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 \$9,450

David L. [Signature]  
 Construction Official

9/26/14  
 Date

U.C.C. F170  
 equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

## PAYMENTS (Office Use Only)

|                  |                 |
|------------------|-----------------|
| Building         | \$0             |
| Electrical       | \$0             |
| Plumbing         | \$0             |
| Fire Protection  | \$150           |
| Elevator Devices | \$0             |
| Other            | \$0.00          |
| DCA Training Fee | \$16            |
| CO Fee           |                 |
| Other            | \$0             |
| Total            | \$166           |
| Check No.        |                 |
| Cash             | <u>cash</u> \$0 |
| Credit           | \$0             |
| Collected By     |                 |

## REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

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2. Foundations and all walls up to grade level prior to back filling.
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☒ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.







# CONSTRUCTION PERMIT

Date Issued  
Control #  
Permit #

9/25/14  
C-14-003514

14-3185

IDENTIFICATION Block: 671 Lot: 1.01 Qualifier  
Work Site Location: 56 CHAMBERS BRIDGE RD. Actual Men's Contractor: NOVA CONSTRUCTION INC  
Warehouse Tenant Permit Brick Township, NJ Address: 8 High Street Suite D Mullica Hill NJ 08062  
Owner in Fee: FEDERAL REALTY INVESTMENT TRUST Telephone: (856) 678-0400  
1626 EAST JEFFERSON ST ROCKVILLE NJ Lic. No. or Bldrs. Reg. No.  
20852 Federal Employee No.

Is hereby granted permission to perform the following work:

- ☒ BUILDING ☒ PLUMBING ☐ LEAD HAZARD ABATEMENT  
☒ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION  
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

DESCRIPTION OF WORK:

TENANT FIT UP - MEN'S WAREHOUSE

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 \$71,500

Construction Official

Date

*Daniel Newman Jr* 9/25/14

U.C.C. F170  
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

## PAYMENTS (Office Use Only)

|                  |         |
|------------------|---------|
| Building         | \$2,150 |
| Electrical       | \$105   |
| Plumbing         | \$236   |
| Fire Protection  | \$0     |
| Elevator Devices | \$0     |
| Other            | \$0.00  |
| DCA Training Fee | \$122   |
| CO Fee           |         |
| Other            | \$0     |
| Total            | \$2,613 |
| Check No.        | 25197   |
| Cash             | \$0     |
| Credit           | \$0     |
| Collected By     |         |

## REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

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3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
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☒ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

2014  
BUILDING \$2,150.00  
ELECTRIC \$105.00  
PLUMBING \$236.00  
DCA \$122.00  
TOTAL \$2,613.00



407-469-5599 office  
407-469-3499 Fax

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TRANSMITTAL SHEET

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TO:

Township of Brick

FROM:

Gary Barson

CONTACT:

Plan Review / Maryjane

DATE:

7/3/2014

PHONE NUMBER:

FAX NUMBER:

RE:

Men's Wearhouse #5225

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☐ URGENT    ☐ FOR REVIEW    ☐ PLEASE COMMENT    ☐ PLEASE REPLY    ☐ PLEASE RECYCLE

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NOTES/COMMENTS

Men's Wearhouse #5225  
74 Brick Plaza  
Brick, NJ

- 1- 2 Sets of Architectural & Engineered signed & sealed plans including ComChecks
- 2- Permit applications for All Trades

This is a submittal for an Interior Remodel of an existing space. We will have our GC contact your department when they have been awarded the job.

Please contact me should your require anything additional to complete this process

Thanks

Gary Barson  
Commercial / Global Project Manager  
gary.barson@expeditepermit.com  
407.469.5599 office    786.556.4975 cell  
407.469.3499 fax  
Team K5 Construction & Development Coordination, LLC  
205 West Washington St.  
Suite B  
Minneola, FL 34715

CC.



# TRANSMITTAL

BY: Robert H.



Brick Township  
401 Chambersbridge Rd  
Brick, NJ 08723  
(732) 262-1030

*8/14/14  
emailed to  
Jason.Kirby@expeditepermit.com.*

**Subcode Official Review**

*Men's Warehouse*

Date: Thursday, August 14, 2014

To: FEDERAL REALTY INVESTMENT TRUST  
1626 EAST JEFFERSON ST  
ROCKVILLE, NJ 20852

RE: Fire Subcode  
Block: 671 Lot: 1.01 Qual:  
56 CHAMBERS BRIDGE RD.  
Permit Number: Control Number: C-14-003514  
Last Submit Date: Thursday, August 14, 2014

*resubmit  
9/23/14 (MF)*

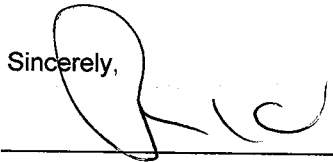
Dear FEDERAL REALTY INVESTMENT TRUST,

Your request is hereby denied upon the following infractions.

1. Need fire sprinkler plan from contractor. Current plan from design professional does not fully address layout and scope of work. Please indicate type and specifications of all devices being utilized. Please supply copy of fire sprinkler installer NJ license.

2. How will sprinkler system be monitored? If fire alarm is being installed to accomplish this, please supply plan and specifications of all devices. Please supply copy of fire alarm installer NJ license.

Sincerely,

  
Richard Orlando, Subcode Official

CC:

# Hydraulic Calculations

for

Project Name: MEN'S WAREHOUSE STORE #5225

Location: 74 BRICK PLAZA, BRICK, NEW JERSEY,

Drawing Name: FP-1 MENS WAREHOUSE BRICK

Calculation Date: 9/24/2014

## Design

Remote Area Number: 1-1  
Remote Area Location: Back Of Store  
Occupancy Classification: Ordinary Group II

Density: 0.200gpm/ft<sup>2</sup>  
Area of Application: 1000.00ft<sup>2</sup> (Actual 1000.94ft<sup>2</sup>)  
Coverage per Sprinkler: 130.00ft<sup>2</sup>  
Type of sprinklers calculated: Pendent  
No. of sprinklers calculated: 12

Type of System: Wet Volume of Dry or PreAction System: N/A  
In-rack Demand: N/A gpm at Node: N/A  
Hose Streams: 250.00 at Node: 1 Type: Allowance at Source

Total Water Required (including Hose Streams where applicable):  
From Water Supply at Node 1: 549.96 @ 53.514

## Water Supply Information:

for Node: 1 Date: 09-17-14  
Location: on Underground Loop.  
Source: FIRST DUE FIRE PROTECTION

Name of Contractor: FIRST DUE FIRE PROTECTION & BACKFLOW SERVICE

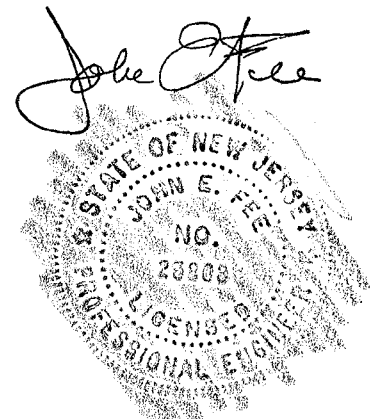
Address: PO BOX 1317, MOUNT LAUREL, NEW JERSEY 08054

Phone Number: Name of designer: RSN

Authority Having Jurisdiction:

Notes:

Automatic peaking results Left: N/A Right: N/A



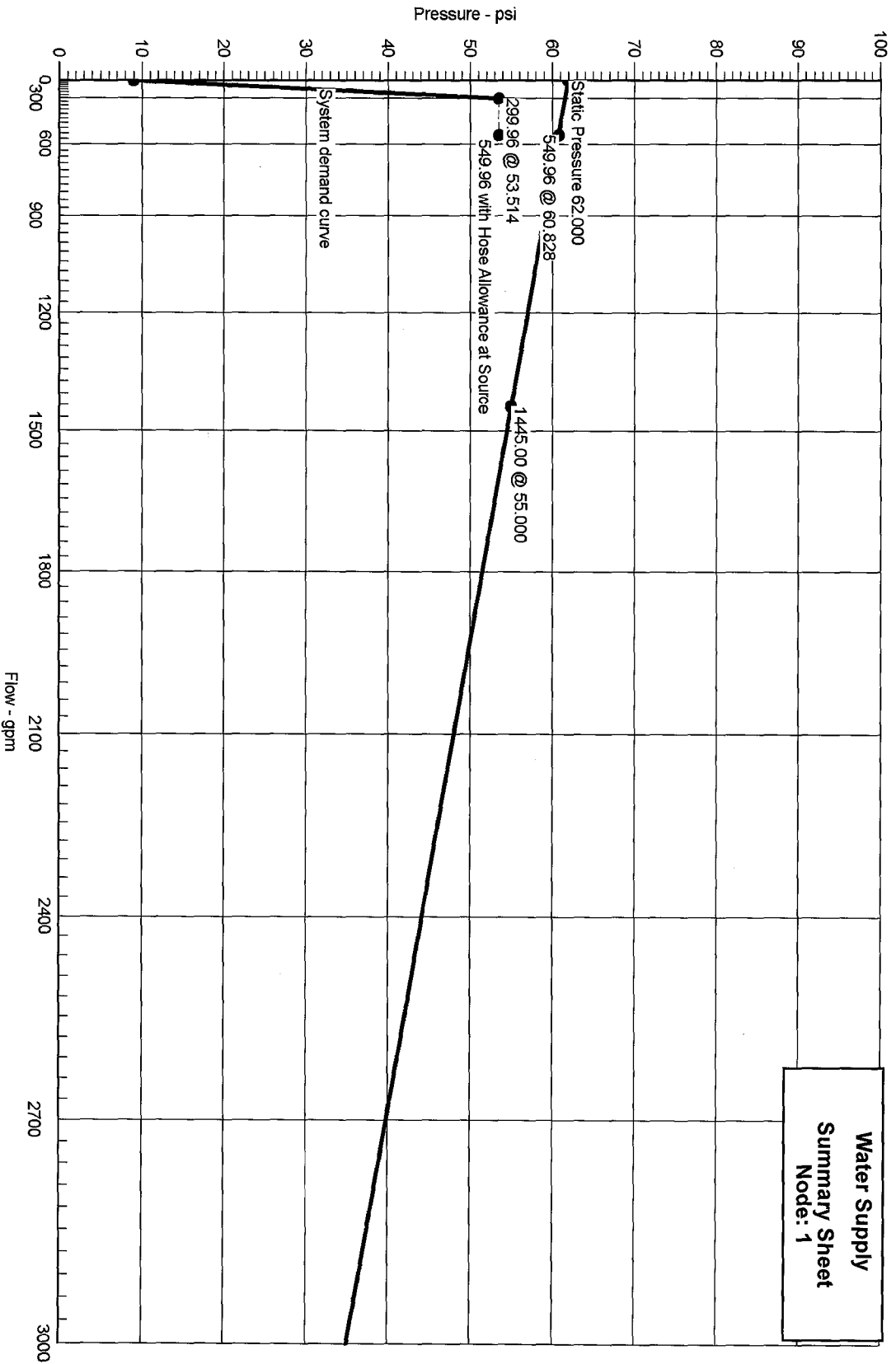
# Hydraulic Graph

Job Name: MEN'S WAREHOUSE STORE #5225  
Remote Area Number: 1-1

N 1.85

Date: 9/24/2014

Water Supply  
Summary Sheet  
Node: 1





## Summary Of Outflowing Devices

Job Number: 05 09-2014 03002  
Report Description: Ordinary Group II

| Device      |     | Actual Flow<br>(gpm) | Minimum Flow<br>(gpm) | K-Factor<br>(K) | Pressure<br>(psi) |  |  |
|-------------|-----|----------------------|-----------------------|-----------------|-------------------|--|--|
| ⇒ Sprinkler | 301 | 24.00                | 24.00                 | 5.6             | 18.367            |  |  |
| Sprinkler   | 309 | 21.77                | 14.82                 | 5.6             | 15.117            |  |  |
| Sprinkler   | 310 | 21.72                | 14.82                 | 5.6             | 15.039            |  |  |
| Sprinkler   | 314 | 23.22                | 14.82                 | 5.6             | 17.186            |  |  |
| Sprinkler   | 315 | 24.93                | 24.00                 | 5.6             | 19.819            |  |  |
| Sprinkler   | 321 | 24.16                | 24.00                 | 5.6             | 18.618            |  |  |
| Sprinkler   | 322 | 24.90                | 24.00                 | 5.6             | 19.769            |  |  |
| Sprinkler   | 330 | 25.98                | 24.00                 | 5.6             | 21.522            |  |  |
| Sprinkler   | 331 | 25.98                | 24.00                 | 5.6             | 21.519            |  |  |
| Sprinkler   | 336 | 27.97                | 24.00                 | 5.6             | 24.948            |  |  |
| Sprinkler   | 337 | 27.80                | 24.00                 | 5.6             | 24.653            |  |  |
| Sprinkler   | 338 | 27.53                | 24.00                 | 5.6             | 24.165            |  |  |

⇒ Most Demanding Sprinkler Data

| Supply Analysis |                  |              |                        |                         |                   |                    |                         |
|-----------------|------------------|--------------|------------------------|-------------------------|-------------------|--------------------|-------------------------|
| Node            | Name             | Static (psi) | Residual (psi) @       | Flow (gpm)              | Available (psi) @ | Total Demand (gpm) | Required Pressure (psi) |
| 1               | Water Supply     | 62.000       | 55.000                 | 1445.00                 | 60.828            | 549.96             | 53.514                  |
| Node Analysis   |                  |              |                        |                         |                   |                    |                         |
| Node Number     | Elevation (Foot) | Node Type    | Pressure at Node (psi) | Discharge at Node (gpm) | Notes             |                    |                         |
| 1               | -4'-0            | Supply       | 53.514                 | 299.96                  |                   |                    |                         |
| 301             | 17'-0            | Sprinkler    | 18.367                 | 24.00                   |                   |                    |                         |
| 309             | 17'-0            | Sprinkler    | 15.117                 | 21.77                   |                   |                    |                         |
| 310             | 17'-0            | Sprinkler    | 15.039                 | 21.72                   |                   |                    |                         |
| 314             | 17'-0            | Sprinkler    | 17.186                 | 23.22                   |                   |                    |                         |
| 315             | 17'-0            | Sprinkler    | 19.819                 | 24.93                   |                   |                    |                         |
| 321             | 17'-0            | Sprinkler    | 18.618                 | 24.16                   |                   |                    |                         |
| 322             | 17'-0            | Sprinkler    | 19.769                 | 24.90                   |                   |                    |                         |
| 330             | 17'-0            | Sprinkler    | 21.522                 | 25.98                   |                   |                    |                         |
| 331             | 17'-0            | Sprinkler    | 21.519                 | 25.98                   |                   |                    |                         |
| 336             | 17'-0            | Sprinkler    | 24.948                 | 27.97                   |                   |                    |                         |
| 337             | 17'-0            | Sprinkler    | 24.653                 | 27.80                   |                   |                    |                         |
| 338             | 17'-0            | Sprinkler    | 24.165                 | 27.53                   |                   |                    |                         |
| 2               | -4'-0            |              | 52.690                 |                         |                   |                    |                         |
| 3               | 2'-0             |              | 49.710                 |                         |                   |                    |                         |
| 16              | 19'-0            |              | 18.134                 |                         |                   |                    |                         |
| 17              | 19'-6            |              | 16.548                 |                         |                   |                    |                         |
| 19              | 19'-0            |              | 21.184                 |                         |                   |                    |                         |
| 43              | 19'-0            |              | 18.706                 |                         |                   |                    |                         |



| Node Number | Elevation (Foot) | Node Type | Pressure at Node (psi) | Discharge at Node (gpm) | Notes |
|-------------|------------------|-----------|------------------------|-------------------------|-------|
| 46          | 19'-0            |           | 21.451                 |                         |       |
| 64          | 19'-0            |           | 21.157                 |                         |       |
| 67          | 19'-0            |           | 22.546                 |                         |       |
| 98          | 19'-0            |           | 24.261                 |                         |       |
| 101         | 19'-0            |           | 24.660                 |                         |       |
| 128         | 19'-0            |           | 27.155                 |                         |       |
| 131         | 19'-0            |           | 26.822                 |                         |       |
| 133         | 19'-0            |           | 29.225                 |                         |       |
| 138         | 19'-0            |           | 30.198                 |                         |       |
| 173         | 19'-0            |           | 32.371                 |                         |       |
| 175         | 19'-0            |           | 31.704                 |                         |       |
| 207         | 18'-0            |           | 34.170                 |                         |       |
| 208         | 19'-0            |           | 33.188                 |                         |       |
| 211         | 18'-0            |           | 34.230                 |                         |       |
| 212         | 19'-0            |           | 32.636                 |                         |       |
| 241         | 7'-0             |           | 45.436                 |                         |       |
| 242         | 7'-0             |           | 45.030                 |                         |       |
| 245         | 17'-0            |           | 39.312                 |                         |       |

## Pipe Information

| Node 1 | Elev 1<br>(Foot) | K-Factor | Flow added<br>this step<br>(q) | Nominal ID | Fittings &<br>Devices      | Length<br>(Foot)  | C Factor                              | Total(Pt)    | Notes                                                                                                                                               |
|--------|------------------|----------|--------------------------------|------------|----------------------------|-------------------|---------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Node 2 | Elev 2<br>(Foot) |          | Total Flow<br>(Q)              | Actual ID  | Equiv.<br>Length<br>(Foot) | Fitting<br>(Foot) | Pf Friction<br>Loss Per Unit<br>(psi) | Elev(Pe)     | Fitting/Device (Equivalent<br>Length)<br>Fixed Pressure Losses, when<br>applicable, are added directly<br>to (Pf) and shown as a<br>negative value. |
|        |                  |          |                                |            |                            | Total<br>(Foot)   |                                       | Friction(Pf) |                                                                                                                                                     |
| 301    | 17'-0            | 5.6      | 24.00                          | 1          | (See<br>Notes)             | 12'-2½            | 120                                   | 18.367       | ••••• Route 1 •••••<br>Sprinkler,<br><br>4E(2'-0)                                                                                                   |
| 19     | 19'-0            |          | 24.00                          | 1.0490     |                            | 8'-0              | 0.182334                              | -0.867       |                                                                                                                                                     |
|        |                  |          |                                |            |                            | 20'-2½            |                                       | 3.684        |                                                                                                                                                     |
| 19     | 19'-0            |          |                                | 1¼         |                            | 5'-7              | 120                                   | 21.184       |                                                                                                                                                     |
| 46     | 19'-0            |          | 24.00                          | 1.3800     |                            | 5'-7              | 0.047955                              | 0.267        |                                                                                                                                                     |
| 46     | 19'-0            |          | 24.93                          | 1¼         |                            | 6'-1½             | 120                                   | 21.451       | Flow (q) from Route 4                                                                                                                               |
| 67     | 19'-0            |          | 48.93                          | 1.3800     |                            | 6'-1½             | 0.179126                              | 1.094        |                                                                                                                                                     |
| 67     | 19'-0            |          | 24.90                          | 1½         |                            | 11'-8             | 120                                   | 22.546       | Flow (q) from Route 3                                                                                                                               |
| 101    | 19'-0            |          | 73.83                          | 1.6100     |                            | 11'-8             | 0.180980                              | 2.114        |                                                                                                                                                     |
| 101    | 19'-0            |          | 25.98                          | 1½         |                            | 6'-10             | 120                                   | 24.660       | Flow (q) from Route 5                                                                                                                               |
| 131    | 19'-0            |          | 99.81                          | 1.6100     |                            | 6'-10             | 0.316123                              | 2.162        |                                                                                                                                                     |
| 131    | 19'-0            |          | 27.53                          | 1½         |                            | 4'-10             | 120                                   | 26.822       | Flow (q) from Route 7                                                                                                                               |
| 133    | 19'-0            |          | 127.34                         | 1.6100     |                            | 4'-10             | 0.496096                              | 2.403        |                                                                                                                                                     |
| 133    | 19'-0            |          | 27.97                          | 2          |                            | 11'-8             | 120                                   | 29.225       | Flow (q) from Route 9                                                                                                                               |
| 175    | 19'-0            |          | 155.31                         | 2.0670     |                            | 11'-8             | 0.212151                              | 2.479        |                                                                                                                                                     |
| 175    | 19'-0            |          |                                | 2½         | (See<br>Notes)             | 4'-5              | 120                                   | 31.704       | E(6'-0)                                                                                                                                             |
| 212    | 19'-0            |          | 155.31                         | 2.4690     |                            | 6'-0              | 0.089284                              |              |                                                                                                                                                     |
|        |                  |          |                                |            |                            | 10'-5             |                                       | 0.932        |                                                                                                                                                     |
| 212    | 19'-0            |          |                                | 2½         | (See<br>Notes)             | 1'-0              | 120                                   | 32.636       | T(12'-0)                                                                                                                                            |
| 211    | 18'-0            |          | 155.31                         | 2.4690     |                            | 12'-0             | 0.089284                              | 0.434        |                                                                                                                                                     |
|        |                  |          |                                |            |                            | 13'-0             |                                       | 1.161        |                                                                                                                                                     |
| 211    | 18'-0            |          | 144.65                         | 4          | (See<br>Notes)             | 111'-5½           | 120                                   | 34.230       | Flow (q) from Route 2                                                                                                                               |
| 245    | 17'-0            |          | 299.96                         | 4.2600     |                            | 107'-11½          | 0.021183                              | 0.434        |                                                                                                                                                     |
|        |                  |          |                                |            |                            | 219'-5            |                                       | 4.648        |                                                                                                                                                     |
| 245    | 17'-0            |          |                                | 4          | (See<br>Notes)             | 10'-0             | 120                                   | 39.312       | ALV(26'-4), BV(15'-9½),<br>E(13'-2)                                                                                                                 |
| 242    | 7'-0             |          | 299.96                         | 4.2600     |                            | 55'-3½            | 0.021183                              | 4.335        |                                                                                                                                                     |
|        |                  |          |                                |            |                            | 65'-3½            |                                       | 1.383        |                                                                                                                                                     |

## Pipe Information

| Node 1 | Elev 1 (Foot) | K-Factor | Flow added this step (q) | Nominal ID | Fittings & Devices   | Length (Foot)                  | C Factor                        | Total(Pt)                | Notes                                                                                                                                   |
|--------|---------------|----------|--------------------------|------------|----------------------|--------------------------------|---------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Node 2 | Elev 2 (Foot) |          | Total Flow (Q)           | Actual ID  | Equiv. Length (Foot) | Fitting (Foot)<br>Total (Foot) | Pf Friction Loss Per Unit (psi) | Elev(Pe)<br>Friction(Pf) | Fitting/Device (Equivalent Length)<br>Fixed Pressure Losses, when applicable, are added directly to (Pf) and shown as a negative value. |
| 242    | 7'-0          |          |                          | 4          | (See Notes)          | 6'-0                           | 120                             | 45.030                   | E(13'-2)                                                                                                                                |
| 241    | 7'-0          |          | 299.96                   | 4.2600     |                      | 13'-2                          | 0.021183                        |                          |                                                                                                                                         |
|        |               |          |                          |            |                      | 19'-2                          |                                 | 0.406                    |                                                                                                                                         |
| 241    | 7'-0          |          |                          | 4          | (See Notes)          | 5'-0                           | 120                             | 45.436                   | BFP(-2.000)                                                                                                                             |
| 3      | 2'-0          |          | 299.96                   | 4.2600     |                      |                                | 0.021183                        | 2.168                    |                                                                                                                                         |
|        |               |          |                          |            |                      | 5'-0                           |                                 | 2.106                    |                                                                                                                                         |
| 3      | 2'-0          |          |                          | 4          | (See Notes)          | 6'-0                           | 140                             | 49.710                   | E(16'-8½)                                                                                                                               |
| 2      | -4'-0         |          | 299.96                   | 4.2200     |                      | 16'-8½                         | 0.016676                        | 2.601                    |                                                                                                                                         |
|        |               |          |                          |            |                      | 22'-8½                         |                                 | 0.379                    |                                                                                                                                         |
| 2      | -4'-0         |          |                          | 4          | (See Notes)          | 50'-0                          | 140                             | 52.690                   | Water Supply                                                                                                                            |
| 1      | -4'-0         |          | 299.96                   | 4.2300     |                      |                                | 0.016485                        |                          |                                                                                                                                         |
|        |               |          |                          |            |                      | 50'-0                          |                                 | 0.824                    |                                                                                                                                         |
|        |               |          | 250.00                   |            |                      |                                |                                 | 53.514                   | Hose Allowance At Source                                                                                                                |
| 1      |               |          | 549.96                   |            |                      |                                |                                 |                          | Total(Pt) Route 1                                                                                                                       |
| 321    | 17'-0         | 5.6      | 24.16                    | 1          | (See Notes)          | 7'-5½                          | 120                             | 18.618                   | ***** Route 2 *****<br>Sprinkler,<br>3E(2'-0), T(5'-0)                                                                                  |
| 64     | 19'-0         |          | 24.16                    | 1.0490     |                      | 11'-0                          | 0.184635                        | -0.867                   |                                                                                                                                         |
|        |               |          |                          |            |                      | 18'-5½                         |                                 | 3.406                    |                                                                                                                                         |
| 64     | 19'-0         |          | 66.71                    | 1½         |                      | 11'-8                          | 120                             | 21.157                   | Flow (q) from Route 10                                                                                                                  |
| 98     | 19'-0         |          | 90.87                    | 1.6100     |                      | 11'-8                          | 0.265751                        | 3.105                    |                                                                                                                                         |
| 98     | 19'-0         |          | 25.98                    | 1½         |                      | 6'-10                          | 120                             | 24.261                   | Flow (q) from Route 6                                                                                                                   |
| 128    | 19'-0         |          | 116.85                   | 1.6100     |                      | 6'-10                          | 0.423163                        | 2.894                    |                                                                                                                                         |
| 128    | 19'-0         |          | 27.80                    | 1½         |                      | 4'-10                          | 120                             | 27.155                   | Flow (q) from Route 8                                                                                                                   |
| 138    | 19'-0         |          | 144.65                   | 1.6100     |                      | 4'-10                          | 0.628077                        | 3.043                    |                                                                                                                                         |
| 138    | 19'-0         |          |                          | 2          |                      | 11'-8                          | 120                             | 30.198                   |                                                                                                                                         |
| 173    | 19'-0         |          | 144.65                   | 2.0670     |                      |                                | 0.186015                        |                          |                                                                                                                                         |
|        |               |          |                          |            |                      | 11'-8                          |                                 | 2.173                    |                                                                                                                                         |
| 173    | 19'-0         |          |                          | 2½         | (See Notes)          | 4'-5                           | 120                             | 32.371                   | E(6'-0)                                                                                                                                 |
| 208    | 19'-0         |          | 144.65                   | 2.4690     |                      | 6'-0                           | 0.078285                        |                          |                                                                                                                                         |
|        |               |          |                          |            |                      | 10'-5                          |                                 | 0.817                    |                                                                                                                                         |

## Pipe Information

| Node 1 | Elev 1<br>(Foot) | K-Factor | Flow added<br>this step<br>(q) | Nominal ID | Fittings &<br>Devices      | Length<br>(Foot)  | C Factor                              | Total(Pt)    | Notes<br>Fitting/Device (Equivalent<br>Length)<br>Fixed Pressure Losses, when<br>applicable, are added directly<br>to (Pf) and shown as a<br>negative value. |
|--------|------------------|----------|--------------------------------|------------|----------------------------|-------------------|---------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Node 2 | Elev 2<br>(Foot) |          | Total Flow<br>(Q)              | Actual ID  | Equiv.<br>Length<br>(Foot) | Fitting<br>(Foot) | Pf Friction<br>Loss Per Unit<br>(psi) | Elev(Pe)     |                                                                                                                                                              |
|        |                  |          |                                |            |                            | Total<br>(Foot)   |                                       | Friction(Pf) |                                                                                                                                                              |
| 208    | 19'-0            |          |                                | 2½         | (See<br>Notes)             | 1'-0              | 120                                   | 33.188       | E(6'-0)                                                                                                                                                      |
| 207    | 18'-0            |          | 144.65                         | 2.4690     |                            | 6'-0              | 0.078285                              | 0.434        |                                                                                                                                                              |
|        |                  |          |                                |            |                            | 7'-0              |                                       | 0.548        |                                                                                                                                                              |
| 207    | 18'-0            |          |                                | 4          |                            | 10'-11            | 120                                   | 34.170       |                                                                                                                                                              |
| 211    | 18'-0            |          | 144.65                         | 4.2600     |                            |                   | 0.005496                              |              |                                                                                                                                                              |
|        |                  |          |                                |            |                            | 10'-11            |                                       | 0.060        |                                                                                                                                                              |
|        |                  |          |                                |            |                            |                   |                                       | 34.230       | Total(Pt) Route 2                                                                                                                                            |
| 322    | 17'-0            | 5.6      | 24.90                          | 1          | (See<br>Notes)             | 7'-8              | 120                                   | 19.769       | ***** Route 3 *****<br>Sprinkler,<br>3E(2'-0), T(5'-0)                                                                                                       |
| 67     | 19'-0            |          | 24.90                          | 1.0490     |                            | 11'-0             | 0.195167                              | -0.867       |                                                                                                                                                              |
|        |                  |          |                                |            |                            | 18'-8             |                                       | 3.644        |                                                                                                                                                              |
|        |                  |          |                                |            |                            |                   |                                       | 22.546       | Total(Pt) Route 3                                                                                                                                            |
| 315    | 17'-0            | 5.6      | 24.93                          | 1          | (See<br>Notes)             | 3'-9½             | 120                                   | 19.819       | ***** Route 4 *****<br>Sprinkler,<br>2E(2'-0), T(5'-0)                                                                                                       |
| 46     | 19'-0            |          | 24.93                          | 1.0490     |                            | 9'-0              | 0.195623                              | -0.867       |                                                                                                                                                              |
|        |                  |          |                                |            |                            | 12'-9½            |                                       | 2.500        |                                                                                                                                                              |
|        |                  |          |                                |            |                            |                   |                                       | 21.451       | Total(Pt) Route 4                                                                                                                                            |
| 331    | 17'-0            | 5.6      | 25.98                          | 1          | (See<br>Notes)             | 8'-0              | 120                                   | 21.519       | ***** Route 5 *****<br>Sprinkler,<br>3E(2'-0), T(5'-0)                                                                                                       |
| 101    | 19'-0            |          | 25.98                          | 1.0490     |                            | 11'-0             | 0.211098                              | -0.867       |                                                                                                                                                              |
|        |                  |          |                                |            |                            | 19'-0             |                                       | 4.008        |                                                                                                                                                              |
|        |                  |          |                                |            |                            |                   |                                       | 24.660       | Total(Pt) Route 5                                                                                                                                            |
| 330    | 17'-0            | 5.6      | 25.98                          | 1          | (See<br>Notes)             | 6'-1              | 120                                   | 21.522       | ***** Route 6 *****<br>Sprinkler,<br>3E(2'-0), T(5'-0)                                                                                                       |
| 98     | 19'-0            |          | 25.98                          | 1.0490     |                            | 11'-0             | 0.211123                              | -0.867       |                                                                                                                                                              |
|        |                  |          |                                |            |                            | 17'-1             |                                       | 3.607        |                                                                                                                                                              |
|        |                  |          |                                |            |                            |                   |                                       | 24.261       | Total(Pt) Route 6                                                                                                                                            |
| 338    | 17'-0            | 5.6      | 27.53                          | 1          | (See<br>Notes)             | 6'-0              | 120                                   | 24.165       | ***** Route 7 *****<br>Sprinkler,<br>2E(2'-0), T(5'-0)                                                                                                       |
| 131    | 19'-0            |          | 27.53                          | 1.0490     |                            | 9'-0              | 0.235005                              | -0.867       |                                                                                                                                                              |
|        |                  |          |                                |            |                            | 15'-0             |                                       | 3.524        |                                                                                                                                                              |
|        |                  |          |                                |            |                            |                   |                                       | 26.822       | Total(Pt) Route 7                                                                                                                                            |
| 337    | 17'-0            | 5.6      | 27.80                          | 1          | (See<br>Notes)             | 5'-1              | 120                                   | 24.653       | ***** Route 8 *****<br>Sprinkler,<br>2E(2'-0), T(5'-0)                                                                                                       |
| 128    | 19'-0            |          | 27.80                          | 1.0490     |                            | 9'-0              | 0.239384                              | -0.867       |                                                                                                                                                              |
|        |                  |          |                                |            |                            | 14'-1             |                                       | 3.370        |                                                                                                                                                              |
|        |                  |          |                                |            |                            |                   |                                       | 27.155       | Total(Pt) Route 8                                                                                                                                            |

## Pipe Information

| Pipe Information |                  |          |                                |            |                            |                   |                                       |              |                                                                                                                                                                      |
|------------------|------------------|----------|--------------------------------|------------|----------------------------|-------------------|---------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Node 1           | Elev 1<br>(Foot) | K-Factor | Flow added<br>this step<br>(q) | Nominal ID | Fittings &<br>Devices      | Length<br>(Foot)  | C Factor                              | Total(Pt)    | Notes<br><br>Fitting/Device (Equivalent<br>Length)<br><br>Fixed Pressure Losses, when<br>applicable, are added directly<br>to (Pf) and shown as a<br>negative value. |
| Node 2           | Elev 2<br>(Foot) |          | Total Flow<br>(Q)              | Actual ID  | Equiv.<br>Length<br>(Foot) | Fitting<br>(Foot) | Pf Friction<br>Loss Per Unit<br>(psi) | Elev(Pe)     |                                                                                                                                                                      |
|                  |                  |          |                                |            |                            | Total<br>(Foot)   |                                       | Friction(Pf) |                                                                                                                                                                      |
| 336              | 17'-0            | 5.6      | 27.97                          | 1          | (See<br>Notes)             | 10'-3             | 120                                   | 24.948       | ***** Route 9 *****<br>Sprinkler,<br><br>3E(2'-0), T(5'-0)                                                                                                           |
| 133              | 19'-0            |          | 27.97                          | 1.0490     |                            | 11'-0             | 0.242039                              | -0.867       |                                                                                                                                                                      |
|                  |                  |          |                                |            |                            | 21'-3             |                                       | 5.144        |                                                                                                                                                                      |
|                  |                  |          |                                |            |                            |                   |                                       | 29.225       | Total(Pt)    Route 9                                                                                                                                                 |
| 310              | 17'-0            | 5.6      | 21.72                          | 1          | (See<br>Notes)             | 8'-1½             | 120                                   | 15.039       | ***** Route 10 *****<br>Sprinkler,<br><br>2E(2'-0), T(5'-0)                                                                                                          |
| 17               | 19'-6            |          | 21.72                          | 1.0490     |                            | 9'-0              | 0.151548                              | -1.084       |                                                                                                                                                                      |
|                  |                  |          |                                |            |                            | 17'-1½            |                                       | 2.593        |                                                                                                                                                                      |
| 17               | 19'-6            |          | 21.77                          | 1          | (See<br>Notes)             | 0'-6              | 120                                   | 16.548       | Flow (q) from Route 11<br><br>E(2'-0)                                                                                                                                |
| 16               | 19'-0            |          | 43.49                          | 1.0490     |                            | 2'-0              | 0.547642                              | 0.217        |                                                                                                                                                                      |
|                  |                  |          |                                |            |                            | 2'-6              |                                       | 1.369        |                                                                                                                                                                      |
| 16               | 19'-0            |          |                                | 1¼         |                            | 3'-11½            | 120                                   | 18.134       |                                                                                                                                                                      |
| 43               | 19'-0            |          | 43.49                          | 1.3800     |                            |                   | 0.144033                              |              |                                                                                                                                                                      |
|                  |                  |          |                                |            |                            | 3'-11½            |                                       | 0.572        |                                                                                                                                                                      |
| 43               | 19'-0            |          | 23.22                          | 1¼         |                            | 7'-8½             | 120                                   | 18.706       | Flow (q) from Route 12                                                                                                                                               |
| 64               | 19'-0            |          | 66.71                          | 1.3800     |                            |                   | 0.317787                              |              |                                                                                                                                                                      |
|                  |                  |          |                                |            |                            | 7'-8½             |                                       | 2.451        |                                                                                                                                                                      |
|                  |                  |          |                                |            |                            |                   |                                       | 21.157       | Total(Pt)    Route 10                                                                                                                                                |
| 309              | 17'-0            | 5.6      | 21.77                          | 1          | (See<br>Notes)             | 7'-6              | 120                                   | 15.117       | ***** Route 11 *****<br>Sprinkler,<br><br>2E(2'-0), T(5'-0)                                                                                                          |
| 17               | 19'-6            |          | 21.77                          | 1.0490     |                            | 9'-0              | 0.152276                              | -1.084       |                                                                                                                                                                      |
|                  |                  |          |                                |            |                            | 16'-6             |                                       | 2.515        |                                                                                                                                                                      |
|                  |                  |          |                                |            |                            |                   |                                       | 16.548       | Total(Pt)    Route 11                                                                                                                                                |
| 314              | 17'-0            | 5.6      | 23.22                          | 1          | (See<br>Notes)             | 4'-11             | 120                                   | 17.186       | ***** Route 12 *****<br>Sprinkler,<br><br>2E(2'-0), T(5'-0)                                                                                                          |
| 43               | 19'-0            |          | 23.22                          | 1.0490     |                            | 9'-0              | 0.171456                              | -0.867       |                                                                                                                                                                      |
|                  |                  |          |                                |            |                            | 13'-11            |                                       | 2.387        |                                                                                                                                                                      |
|                  |                  |          |                                |            |                            |                   |                                       | 18.706       | Total(Pt)    Route 12                                                                                                                                                |

Equivalent Pipe Lengths of Valves and Fittings (C=120 only)

C Value Multiplier

$$\left( \frac{\text{Actual Inside Diameter}}{\text{Schedule 40 Steel Pipe Inside Diameter}} \right)^{4.87} = \text{Factor}$$

|                    |       |      |      |      |
|--------------------|-------|------|------|------|
| Value Of C         | 100   | 130  | 140  | 150  |
| Multiplying Factor | 0.713 | 1.16 | 1.33 | 1.51 |

Fittings Legend

|      |                            |      |                        |      |                         |
|------|----------------------------|------|------------------------|------|-------------------------|
| ALV  | Alarm Valve                | AngV | Angle Valve            | b    | Bushing                 |
| BaIV | Ball Valve                 | BFP  | Backflow Preventer     | BV   | Butterfly Valve         |
| C    | Cross Flow Turn 90°        | cplg | Coupling               | Cr   | Cross Run               |
| CV   | Check Valve                | DeIV | Deluge Valve           | DPV  | Dry Pipe Valve          |
| E    | 90° Elbow                  | EE   | 45° Elbow              | Ee1  | 11¼° Elbow              |
| Ee2  | 22½° Elbow                 | f    | Flow Device            | fd   | Flex Drop               |
| FDC  | Fire Department Connection | fE   | 90° FireLock(TM) Elbow | fEE  | 45° FireLock(TM) Elbow  |
| flg  | Flange                     | FN   | Floating Node          | fT   | FireLock(TM) Tee        |
| g    | Gauge                      | GloV | Globe Valve            | GV   | Gate Valve              |
| Ho   | Hose                       | Hose | Hose                   | HV   | Hose Valve              |
| Hyd  | Hydrant                    | LtE  | Long Turn Elbow        | mecT | Mechanical Tee          |
| Noz  | Nozzle                     | P1   | Pump In                | P2   | Pump Out                |
| PIV  | Post Indicating Valve      | PO   | Pipe Outlet            | PRV  | Pressure Reducing Valve |
| PrV  | Pressure Relief Valve      | red  | Reducer/Adapter        | S    | Supply                  |
| sCV  | Swing Check Valve          | Spr  | Sprinkler              | St   | Strainer                |
| T    | Tee Flow Turn 90°          | Tr   | Tee Run                | U    | Union                   |
| WirF | Wirsbo                     | WMV  | Water Meter Valve      | Z    | Cap                     |

# Hydraulic Calculations

for

Project Name: MEN'S WAREHOUSE STORE #5225  
Location: 74 BRICK PLAZA, BRICK, NEW JERSEY,  
Drawing Name: FP-1 MENS WAREHOUSE BRICK

Calculation Date: 9/24/2014

## Design

Remote Area Number: 1-1  
Remote Area Location: Back Of Store  
Occupancy Classification: Ordinary Group II

Density: 0.200gpm/ft<sup>2</sup>  
Area of Application: 1000.00ft<sup>2</sup> (Actual 1000.94ft<sup>2</sup>)  
Coverage per Sprinkler: 130.00ft<sup>2</sup>  
Type of sprinklers calculated: Pendent  
No. of sprinklers calculated: 12

|                 |         |                                    |                             |
|-----------------|---------|------------------------------------|-----------------------------|
| Type of System: | Wet     | Volume of Dry or PreAction System: | N/A                         |
| In-rack Demand: | N/A gpm | at Node:                           | N/A                         |
| Hose Streams:   | 250.00  | at Node:                           | 1 Type: Allowance at Source |

Total Water Required (including Hose Streams where applicable):  
From Water Supply at Node 1: 549.96 @ 53.514

## Water Supply Information:

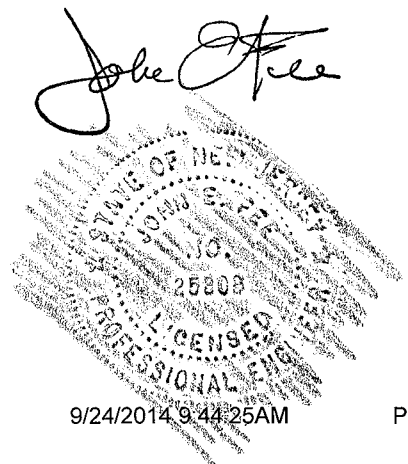
for Node: 1 Date: 09-17-14  
Location: on Underground Loop.  
Source: FIRST DUE FIRE PROTECTION

Name of Contractor: FIRST DUE FIRE PROTECTION & BACKFLOW SERVICE  
Address: PO BOX 1317, MOUNT LAUREL, NEW JERSEY 08054  
Phone Number: Name of designer: RSN

Authority Having Jurisdiction:

Notes:

Automatic peaking results Left: N/A Right: N/A

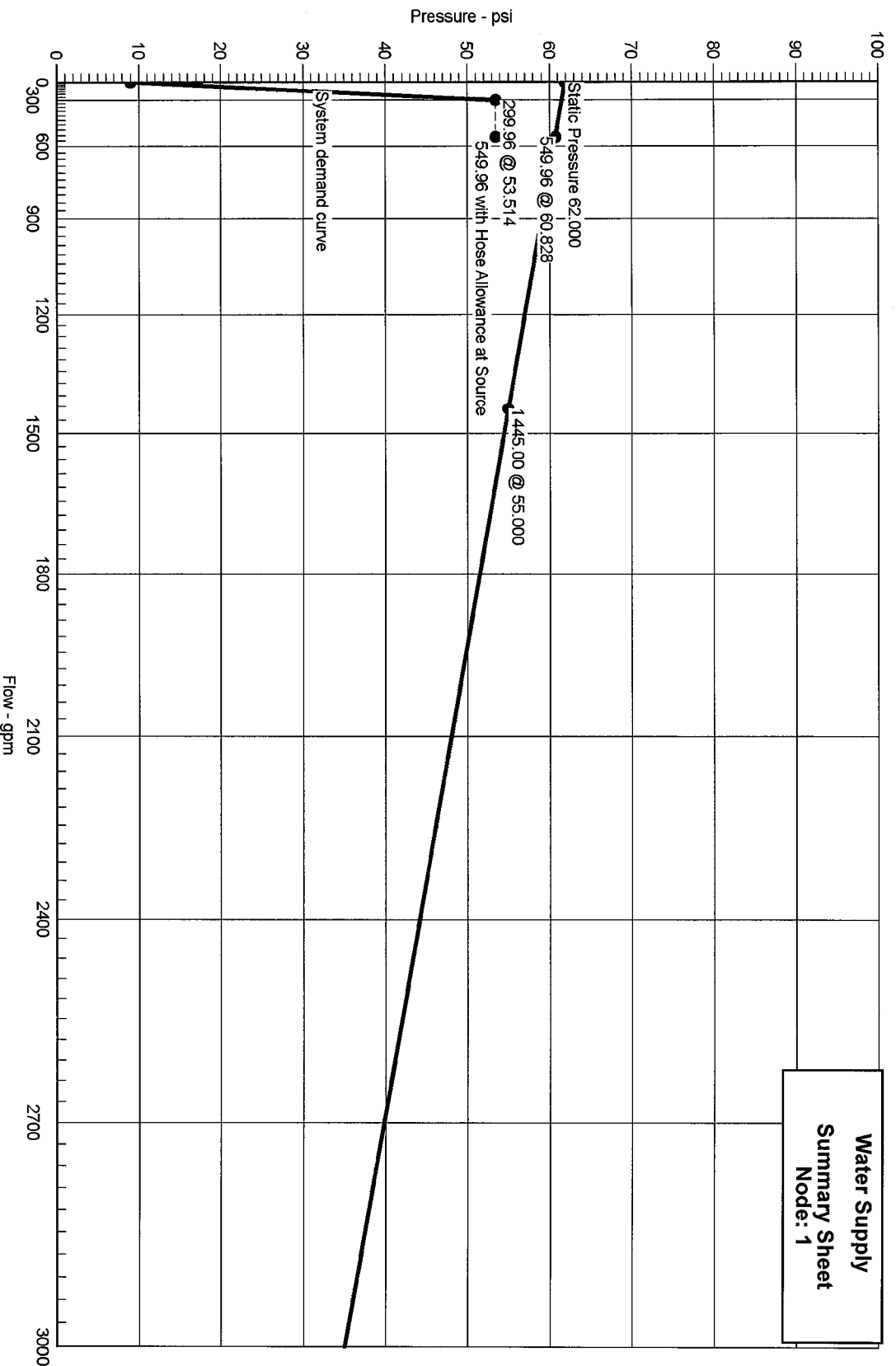


# Hydraulic Graph

Job Name: MEN'S WAREHOUSE STORE #5225  
Remote Area Number: 1-1

N 1.85

Date: 9/24/2014







## Summary Of Outflowing Devices

Job Number: 05 09-2014 03002  
Report Description: Ordinary Group II

| Device      |     | Actual Flow<br>(gpm) | Minimum Flow<br>(gpm) | K-Factor<br>(K) | Pressure<br>(psi) |  |  |
|-------------|-----|----------------------|-----------------------|-----------------|-------------------|--|--|
| ⇒ Sprinkler | 301 | 24.00                | 24.00                 | 5.6             | 18.367            |  |  |
| Sprinkler   | 309 | 21.77                | 14.82                 | 5.6             | 15.117            |  |  |
| Sprinkler   | 310 | 21.72                | 14.82                 | 5.6             | 15.039            |  |  |
| Sprinkler   | 314 | 23.22                | 14.82                 | 5.6             | 17.186            |  |  |
| Sprinkler   | 315 | 24.93                | 24.00                 | 5.6             | 19.819            |  |  |
| Sprinkler   | 321 | 24.16                | 24.00                 | 5.6             | 18.618            |  |  |
| Sprinkler   | 322 | 24.90                | 24.00                 | 5.6             | 19.769            |  |  |
| Sprinkler   | 330 | 25.98                | 24.00                 | 5.6             | 21.522            |  |  |
| Sprinkler   | 331 | 25.98                | 24.00                 | 5.6             | 21.519            |  |  |
| Sprinkler   | 336 | 27.97                | 24.00                 | 5.6             | 24.948            |  |  |
| Sprinkler   | 337 | 27.80                | 24.00                 | 5.6             | 24.653            |  |  |
| Sprinkler   | 338 | 27.53                | 24.00                 | 5.6             | 24.165            |  |  |

⇒ Most Demanding Sprinkler Data

## Supply Analysis

| Node | Name         | Static (psi) | Residual (psi) @ | Flow (gpm) | Available (psi) @ | Total Demand (gpm) | Required Pressure (psi) |
|------|--------------|--------------|------------------|------------|-------------------|--------------------|-------------------------|
| 1    | Water Supply | 62.000       | 55.000           | 1445.00    | 60.828            | 549.96             | 53.514                  |

## Node Analysis

| Node Number | Elevation (Foot) | Node Type | Pressure at Node (psi) | Discharge at Node (gpm) | Notes |
|-------------|------------------|-----------|------------------------|-------------------------|-------|
| 1           | -4'-0            | Supply    | 53.514                 | 299.96                  |       |
| 301         | 17'-0            | Sprinkler | 18.367                 | 24.00                   |       |
| 309         | 17'-0            | Sprinkler | 15.117                 | 21.77                   |       |
| 310         | 17'-0            | Sprinkler | 15.039                 | 21.72                   |       |
| 314         | 17'-0            | Sprinkler | 17.186                 | 23.22                   |       |
| 315         | 17'-0            | Sprinkler | 19.819                 | 24.93                   |       |
| 321         | 17'-0            | Sprinkler | 18.618                 | 24.16                   |       |
| 322         | 17'-0            | Sprinkler | 19.769                 | 24.90                   |       |
| 330         | 17'-0            | Sprinkler | 21.522                 | 25.98                   |       |
| 331         | 17'-0            | Sprinkler | 21.519                 | 25.98                   |       |
| 336         | 17'-0            | Sprinkler | 24.948                 | 27.97                   |       |
| 337         | 17'-0            | Sprinkler | 24.653                 | 27.80                   |       |
| 338         | 17'-0            | Sprinkler | 24.165                 | 27.53                   |       |
| 2           | -4'-0            |           | 52.690                 |                         |       |
| 3           | 2'-0             |           | 49.710                 |                         |       |
| 16          | 19'-0            |           | 18.134                 |                         |       |
| 17          | 19'-6            |           | 16.548                 |                         |       |
| 19          | 19'-0            |           | 21.184                 |                         |       |
| 43          | 19'-0            |           | 18.706                 |                         |       |

| Node Number | Elevation (Foot) | Node Type | Pressure at Node (psi) | Discharge at Node (gpm) | Notes |
|-------------|------------------|-----------|------------------------|-------------------------|-------|
| 46          | 19'-0            |           | 21.451                 |                         |       |
| 64          | 19'-0            |           | 21.157                 |                         |       |
| 67          | 19'-0            |           | 22.546                 |                         |       |
| 98          | 19'-0            |           | 24.261                 |                         |       |
| 101         | 19'-0            |           | 24.660                 |                         |       |
| 128         | 19'-0            |           | 27.155                 |                         |       |
| 131         | 19'-0            |           | 26.822                 |                         |       |
| 133         | 19'-0            |           | 29.225                 |                         |       |
| 138         | 19'-0            |           | 30.198                 |                         |       |
| 173         | 19'-0            |           | 32.371                 |                         |       |
| 175         | 19'-0            |           | 31.704                 |                         |       |
| 207         | 18'-0            |           | 34.170                 |                         |       |
| 208         | 19'-0            |           | 33.188                 |                         |       |
| 211         | 18'-0            |           | 34.230                 |                         |       |
| 212         | 19'-0            |           | 32.636                 |                         |       |
| 241         | 7'-0             |           | 45.436                 |                         |       |
| 242         | 7'-0             |           | 45.030                 |                         |       |
| 245         | 17'-0            |           | 39.312                 |                         |       |

## Pipe Information

| Node 1 | Elev 1<br>(Foot) | K-Factor | Flow added<br>this step<br>(q) | Nominal ID | Fittings &<br>Devices      | Length<br>(Foot)  | C Factor                              | Total(Pt)    | Notes<br><br>Fitting/Device (Equivalent<br>Length)<br><br>Fixed Pressure Losses, when<br>applicable, are added directly<br>to (Pf) and shown as a<br>negative value. |
|--------|------------------|----------|--------------------------------|------------|----------------------------|-------------------|---------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                  |          |                                |            |                            | Fitting<br>(Foot) | Pf Friction<br>Loss Per Unit<br>(psi) | Elev(Pe)     |                                                                                                                                                                      |
| Node 2 | Elev 2<br>(Foot) |          | Total Flow<br>(Q)              | Actual ID  | Equiv.<br>Length<br>(Foot) | Total<br>(Foot)   |                                       | Friction(Pf) |                                                                                                                                                                      |
| 301    | 17'-0            | 5.6      | 24.00                          | 1          | (See<br>Notes)             | 12'-2½            | 120                                   | 18.367       | ..... Route 1 .....<br>Sprinkler,<br><br>4E(2'-0)                                                                                                                    |
| 19     | 19'-0            |          | 24.00                          | 1.0490     |                            | 8'-0              | 0.182334                              | -0.867       |                                                                                                                                                                      |
|        |                  |          |                                |            |                            | 20'-2½            |                                       | 3.684        |                                                                                                                                                                      |
| 19     | 19'-0            |          |                                | 1¼         |                            | 5'-7              | 120                                   | 21.184       |                                                                                                                                                                      |
| 46     | 19'-0            |          | 24.00                          | 1.3800     |                            | 5'-7              | 0.047955                              | 0.267        |                                                                                                                                                                      |
| 46     | 19'-0            |          | 24.93                          | 1¼         |                            | 6'-1½             | 120                                   | 21.451       | Flow (q) from Route 4                                                                                                                                                |
| 67     | 19'-0            |          | 48.93                          | 1.3800     |                            | 6'-1½             | 0.179126                              | 1.094        |                                                                                                                                                                      |
| 67     | 19'-0            |          | 24.90                          | 1½         |                            | 11'-8             | 120                                   | 22.546       | Flow (q) from Route 3                                                                                                                                                |
| 101    | 19'-0            |          | 73.83                          | 1.6100     |                            | 11'-8             | 0.180980                              | 2.114        |                                                                                                                                                                      |
| 101    | 19'-0            |          | 25.98                          | 1½         |                            | 6'-10             | 120                                   | 24.660       | Flow (q) from Route 5                                                                                                                                                |
| 131    | 19'-0            |          | 99.81                          | 1.6100     |                            | 6'-10             | 0.316123                              | 2.162        |                                                                                                                                                                      |
| 131    | 19'-0            |          | 27.53                          | 1½         |                            | 4'-10             | 120                                   | 26.822       | Flow (q) from Route 7                                                                                                                                                |
| 133    | 19'-0            |          | 127.34                         | 1.6100     |                            | 4'-10             | 0.496096                              | 2.403        |                                                                                                                                                                      |
| 133    | 19'-0            |          | 27.97                          | 2          |                            | 11'-8             | 120                                   | 29.225       | Flow (q) from Route 9                                                                                                                                                |
| 175    | 19'-0            |          | 155.31                         | 2.0670     |                            | 11'-8             | 0.212151                              | 2.479        |                                                                                                                                                                      |
| 175    | 19'-0            |          |                                | 2½         | (See<br>Notes)             | 4'-5              | 120                                   | 31.704       | E(6'-0)                                                                                                                                                              |
| 212    | 19'-0            |          | 155.31                         | 2.4690     |                            | 6'-0              | 0.089284                              |              |                                                                                                                                                                      |
|        |                  |          |                                |            |                            | 10'-5             |                                       | 0.932        |                                                                                                                                                                      |
| 212    | 19'-0            |          |                                | 2½         | (See<br>Notes)             | 1'-0              | 120                                   | 32.636       | T(12'-0)                                                                                                                                                             |
| 211    | 18'-0            |          | 155.31                         | 2.4690     |                            | 12'-0             | 0.089284                              | 0.434        |                                                                                                                                                                      |
|        |                  |          |                                |            |                            | 13'-0             |                                       | 1.161        |                                                                                                                                                                      |
| 211    | 18'-0            |          | 144.65                         | 4          | (See<br>Notes)             | 111'-5½           | 120                                   | 34.230       | Flow (q) from Route 2<br><br>T(26'-4), 5E(13'-2), BV(15'-9½)                                                                                                         |
| 245    | 17'-0            |          | 299.96                         | 4.2600     |                            | 107'-11½          | 0.021183                              | 0.434        |                                                                                                                                                                      |
|        |                  |          |                                |            |                            | 219'-5            |                                       | 4.648        |                                                                                                                                                                      |
| 245    | 17'-0            |          |                                | 4          | (See<br>Notes)             | 10'-0             | 120                                   | 39.312       | ALV(26'-4), BV(15'-9½),<br>E(13'-2)                                                                                                                                  |
| 242    | 7'-0             |          | 299.96                         | 4.2600     |                            | 55'-3½            | 0.021183                              | 4.335        |                                                                                                                                                                      |
|        |                  |          |                                |            |                            | 65'-3½            |                                       | 1.383        |                                                                                                                                                                      |

## Pipe Information

| Node 1 | Elev 1 (Foot) | K-Factor | Flow added this step (q) | Nominal ID | Fittings & Devices   | Length (Foot)  | C Factor                        | Total(Pt)    | Notes<br>Fitting/Device (Equivalent Length)<br>Fixed Pressure Losses, when applicable, are added directly to (Pf) and shown as a negative value. |
|--------|---------------|----------|--------------------------|------------|----------------------|----------------|---------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|        |               |          |                          |            |                      | Fitting (Foot) | Pf Friction Loss Per Unit (psi) | Elev(Pe)     |                                                                                                                                                  |
| Node 2 | Elev 2 (Foot) |          | Total Flow (Q)           | Actual ID  | Equiv. Length (Foot) | Total (Foot)   |                                 | Friction(Pf) |                                                                                                                                                  |
| 242    | 7'-0          |          |                          | 4          | (See Notes)          | 6'-0           | 120                             | 45.030       | E(13'-2)                                                                                                                                         |
| 241    | 7'-0          |          | 299.96                   | 4.2600     |                      | 13'-2          | 0.021183                        |              |                                                                                                                                                  |
|        |               |          |                          |            |                      | 19'-2          |                                 | 0.406        |                                                                                                                                                  |
| 241    | 7'-0          |          |                          | 4          | (See Notes)          | 5'-0           | 120                             | 45.436       | BFP(-2.000)                                                                                                                                      |
|        |               |          |                          |            |                      |                | 0.021183                        | 2.168        |                                                                                                                                                  |
| 3      | 2'-0          |          | 299.96                   | 4.2600     |                      | 5'-0           |                                 | 2.106        |                                                                                                                                                  |
| 3      | 2'-0          |          |                          | 4          | (See Notes)          | 6'-0           | 140                             | 49.710       | E(16'-8½)                                                                                                                                        |
|        |               |          |                          |            |                      | 16'-8½         | 0.016676                        | 2.601        |                                                                                                                                                  |
| 2      | -4'-0         |          | 299.96                   | 4.2200     |                      | 22'-8½         |                                 | 0.379        |                                                                                                                                                  |
| 2      | -4'-0         |          |                          | 4          | (See Notes)          | 50'-0          | 140                             | 52.690       | Water Supply                                                                                                                                     |
|        |               |          |                          |            |                      |                | 0.016485                        |              |                                                                                                                                                  |
| 1      | -4'-0         |          | 299.96                   | 4.2300     |                      | 50'-0          |                                 | 0.824        |                                                                                                                                                  |
|        |               |          | 250.00                   |            |                      |                |                                 | 53.514       | Hose Allowance At Source                                                                                                                         |
| 1      |               |          | 549.96                   |            |                      |                |                                 |              | Total(Pt) Route 1                                                                                                                                |
| 321    | 17'-0         | 5.6      | 24.16                    | 1          | (See Notes)          | 7'-5½          | 120                             | 18.618       | ..... Route 2 .....<br>Sprinkler,<br>3E(2'-0), T(5'-0)                                                                                           |
|        |               |          |                          |            |                      | 11'-0          | 0.184635                        | -0.867       |                                                                                                                                                  |
| 64     | 19'-0         |          | 24.16                    | 1.0490     |                      | 18'-5½         |                                 | 3.406        |                                                                                                                                                  |
| 64     | 19'-0         |          | 66.71                    | 1½         |                      | 11'-8          | 120                             | 21.157       | Flow (q) from Route 10                                                                                                                           |
|        |               |          |                          |            |                      |                | 0.265751                        |              |                                                                                                                                                  |
| 98     | 19'-0         |          | 90.87                    | 1.6100     |                      | 11'-8          |                                 | 3.105        |                                                                                                                                                  |
| 98     | 19'-0         |          | 25.98                    | 1½         |                      | 6'-10          | 120                             | 24.261       | Flow (q) from Route 6                                                                                                                            |
|        |               |          |                          |            |                      |                | 0.423163                        |              |                                                                                                                                                  |
| 128    | 19'-0         |          | 116.85                   | 1.6100     |                      | 6'-10          |                                 | 2.894        |                                                                                                                                                  |
| 128    | 19'-0         |          | 27.80                    | 1½         |                      | 4'-10          | 120                             | 27.155       | Flow (q) from Route 8                                                                                                                            |
|        |               |          |                          |            |                      |                | 0.628077                        |              |                                                                                                                                                  |
| 138    | 19'-0         |          | 144.65                   | 1.6100     |                      | 4'-10          |                                 | 3.043        |                                                                                                                                                  |
| 138    | 19'-0         |          |                          | 2          |                      | 11'-8          | 120                             | 30.198       |                                                                                                                                                  |
|        |               |          |                          |            |                      |                | 0.186015                        |              |                                                                                                                                                  |
| 173    | 19'-0         |          | 144.65                   | 2.0670     |                      | 11'-8          |                                 | 2.173        |                                                                                                                                                  |
| 173    | 19'-0         |          |                          | 2½         | (See Notes)          | 4'-5           | 120                             | 32.371       | E(6'-0)                                                                                                                                          |
|        |               |          |                          |            |                      | 6'-0           | 0.078285                        |              |                                                                                                                                                  |
| 208    | 19'-0         |          | 144.65                   | 2.4690     |                      | 10'-5          |                                 | 0.817        |                                                                                                                                                  |

## Pipe Information

| Node 1          | Elev 1<br>(Foot) | K-Factor     | Flow added<br>this step<br>(q) | Nominal ID        | Fittings &<br>Devices | Length<br>(Foot)           | C Factor          | Total(Pt)                             | Notes<br><br>Fitting/Device (Equivalent<br>Length)<br><br>Fixed Pressure Losses, when<br>applicable, are added directly<br>to (Pf) and shown as a<br>negative value. |
|-----------------|------------------|--------------|--------------------------------|-------------------|-----------------------|----------------------------|-------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | Node 2           |              | Elev 2<br>(Foot)               | Total Flow<br>(Q) | Actual ID             | Equiv.<br>Length<br>(Foot) | Fitting<br>(Foot) | Pf Friction<br>Loss Per Unit<br>(psi) |                                                                                                                                                                      |
| Total<br>(Foot) |                  | Friction(Pf) |                                |                   |                       |                            |                   |                                       |                                                                                                                                                                      |
| 208             | 19'-0            |              |                                | 2½                | (See<br>Notes)        | 1'-0                       | 120               | 33.188                                | E(6'-0)                                                                                                                                                              |
| 207             | 18'-0            |              | 144.65                         | 2.4690            |                       | 6'-0                       | 0.078285          | 0.434                                 |                                                                                                                                                                      |
|                 |                  |              |                                |                   |                       | 7'-0                       |                   | 0.548                                 |                                                                                                                                                                      |
| 207             | 18'-0            |              |                                | 4                 |                       | 10'-11                     | 120               | 34.170                                |                                                                                                                                                                      |
| 211             | 18'-0            |              | 144.65                         | 4.2600            |                       |                            | 0.005496          |                                       |                                                                                                                                                                      |
|                 |                  |              |                                |                   |                       | 10'-11                     |                   | 0.060                                 |                                                                                                                                                                      |
| 34.230          |                  |              |                                |                   |                       |                            |                   |                                       | Total(Pt)    Route 2                                                                                                                                                 |
| 322             | 17'-0            | 5.6          | 24.90                          | 1                 | (See<br>Notes)        | 7'-8                       | 120               | 19.769                                | ..... Route 3 .....<br>Sprinkler,<br><br>3E(2'-0), T(5'-0)                                                                                                           |
| 67              | 19'-0            |              | 24.90                          | 1.0490            |                       | 11'-0                      | 0.195167          | -0.867                                |                                                                                                                                                                      |
|                 |                  |              |                                |                   |                       | 18'-8                      |                   | 3.644                                 |                                                                                                                                                                      |
| 22.546          |                  |              |                                |                   |                       |                            |                   |                                       | Total(Pt)    Route 3                                                                                                                                                 |
| 315             | 17'-0            | 5.6          | 24.93                          | 1                 | (See<br>Notes)        | 3'-9½                      | 120               | 19.819                                | ..... Route 4 .....<br>Sprinkler,<br><br>2E(2'-0), T(5'-0)                                                                                                           |
| 46              | 19'-0            |              | 24.93                          | 1.0490            |                       | 9'-0                       | 0.195623          | -0.867                                |                                                                                                                                                                      |
|                 |                  |              |                                |                   |                       | 12'-9½                     |                   | 2.500                                 |                                                                                                                                                                      |
| 21.451          |                  |              |                                |                   |                       |                            |                   |                                       | Total(Pt)    Route 4                                                                                                                                                 |
| 331             | 17'-0            | 5.6          | 25.98                          | 1                 | (See<br>Notes)        | 8'-0                       | 120               | 21.519                                | ..... Route 5 .....<br>Sprinkler,<br><br>3E(2'-0), T(5'-0)                                                                                                           |
| 101             | 19'-0            |              | 25.98                          | 1.0490            |                       | 11'-0                      | 0.211098          | -0.867                                |                                                                                                                                                                      |
|                 |                  |              |                                |                   |                       | 19'-0                      |                   | 4.008                                 |                                                                                                                                                                      |
| 24.660          |                  |              |                                |                   |                       |                            |                   |                                       | Total(Pt)    Route 5                                                                                                                                                 |
| 330             | 17'-0            | 5.6          | 25.98                          | 1                 | (See<br>Notes)        | 6'-1                       | 120               | 21.522                                | ..... Route 6 .....<br>Sprinkler,<br><br>3E(2'-0), T(5'-0)                                                                                                           |
| 98              | 19'-0            |              | 25.98                          | 1.0490            |                       | 11'-0                      | 0.211123          | -0.867                                |                                                                                                                                                                      |
|                 |                  |              |                                |                   |                       | 17'-1                      |                   | 3.607                                 |                                                                                                                                                                      |
| 24.261          |                  |              |                                |                   |                       |                            |                   |                                       | Total(Pt)    Route 6                                                                                                                                                 |
| 338             | 17'-0            | 5.6          | 27.53                          | 1                 | (See<br>Notes)        | 6'-0                       | 120               | 24.165                                | ..... Route 7 .....<br>Sprinkler,<br><br>2E(2'-0), T(5'-0)                                                                                                           |
| 131             | 19'-0            |              | 27.53                          | 1.0490            |                       | 9'-0                       | 0.235005          | -0.867                                |                                                                                                                                                                      |
|                 |                  |              |                                |                   |                       | 15'-0                      |                   | 3.524                                 |                                                                                                                                                                      |
| 26.822          |                  |              |                                |                   |                       |                            |                   |                                       | Total(Pt)    Route 7                                                                                                                                                 |
| 337             | 17'-0            | 5.6          | 27.80                          | 1                 | (See<br>Notes)        | 5'-1                       | 120               | 24.653                                | ..... Route 8 .....<br>Sprinkler,<br><br>2E(2'-0), T(5'-0)                                                                                                           |
| 128             | 19'-0            |              | 27.80                          | 1.0490            |                       | 9'-0                       | 0.239384          | -0.867                                |                                                                                                                                                                      |
|                 |                  |              |                                |                   |                       | 14'-1                      |                   | 3.370                                 |                                                                                                                                                                      |
| 27.155          |                  |              |                                |                   |                       |                            |                   |                                       | Total(Pt)    Route 8                                                                                                                                                 |

## Pipe Information

| Node 1 | Elev 1<br>(Foot) | K-Factor | Flow added<br>this step<br>(q) | Nominal ID | Fittings &<br>Devices      | Length<br>(Foot)  | C Factor                              | Total(Pt)    | Notes                                                                                                                                               |
|--------|------------------|----------|--------------------------------|------------|----------------------------|-------------------|---------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Node 2 | Elev 2<br>(Foot) |          | Total Flow<br>(Q)              | Actual ID  | Equiv.<br>Length<br>(Foot) | Fitting<br>(Foot) | Pf Friction<br>Loss Per Unit<br>(psi) | Elev(Pe)     | Fitting/Device (Equivalent<br>Length)<br>Fixed Pressure Losses, when<br>applicable, are added directly<br>to (Pf) and shown as a<br>negative value. |
|        |                  |          |                                |            |                            | Total<br>(Foot)   |                                       | Friction(Pf) |                                                                                                                                                     |
| 336    | 17'-0            | 5.6      | 27.97                          | 1          | (See<br>Notes)             | 10'-3             | 120                                   | 24.948       | ***** Route 9 *****<br>Sprinkler,<br><br>3E(2'-0), T(5'-0)                                                                                          |
| 133    | 19'-0            |          | 27.97                          | 1.0490     |                            | 11'-0             | 0.242039                              | -0.867       |                                                                                                                                                     |
|        |                  |          |                                |            |                            | 21'-3             |                                       | 5.144        |                                                                                                                                                     |
|        |                  |          |                                |            |                            |                   |                                       | 29.225       | Total(Pt) Route 9                                                                                                                                   |
| 310    | 17'-0            | 5.6      | 21.72                          | 1          | (See<br>Notes)             | 8'-1½             | 120                                   | 15.039       | ***** Route 10 *****<br>Sprinkler,<br><br>2E(2'-0), T(5'-0)                                                                                         |
| 17     | 19'-6            |          | 21.72                          | 1.0490     |                            | 9'-0              | 0.151548                              | -1.084       |                                                                                                                                                     |
|        |                  |          |                                |            |                            | 17'-1½            |                                       | 2.593        |                                                                                                                                                     |
| 17     | 19'-6            |          | 21.77                          | 1          | (See<br>Notes)             | 0'-6              | 120                                   | 16.548       | Flow (q) from Route 11<br><br>E(2'-0)                                                                                                               |
| 16     | 19'-0            |          | 43.49                          | 1.0490     |                            | 2'-0              | 0.547642                              | 0.217        |                                                                                                                                                     |
|        |                  |          |                                |            |                            | 2'-6              |                                       | 1.369        |                                                                                                                                                     |
| 16     | 19'-0            |          |                                | 1¼         |                            | 3'-11½            | 120                                   | 18.134       |                                                                                                                                                     |
| 43     | 19'-0            |          | 43.49                          | 1.3800     |                            |                   | 0.144033                              |              |                                                                                                                                                     |
|        |                  |          |                                |            |                            | 3'-11½            |                                       | 0.572        |                                                                                                                                                     |
| 43     | 19'-0            |          | 23.22                          | 1¼         |                            | 7'-8½             | 120                                   | 18.706       | Flow (q) from Route 12                                                                                                                              |
| 64     | 19'-0            |          | 66.71                          | 1.3800     |                            |                   | 0.317787                              |              |                                                                                                                                                     |
|        |                  |          |                                |            |                            | 7'-8½             |                                       | 2.451        |                                                                                                                                                     |
|        |                  |          |                                |            |                            |                   |                                       | 21.157       | Total(Pt) Route 10                                                                                                                                  |
| 309    | 17'-0            | 5.6      | 21.77                          | 1          | (See<br>Notes)             | 7'-6              | 120                                   | 15.117       | ***** Route 11 *****<br>Sprinkler,<br><br>2E(2'-0), T(5'-0)                                                                                         |
| 17     | 19'-6            |          | 21.77                          | 1.0490     |                            | 9'-0              | 0.152276                              | -1.084       |                                                                                                                                                     |
|        |                  |          |                                |            |                            | 16'-6             |                                       | 2.515        |                                                                                                                                                     |
|        |                  |          |                                |            |                            |                   |                                       | 16.548       | Total(Pt) Route 11                                                                                                                                  |
| 314    | 17'-0            | 5.6      | 23.22                          | 1          | (See<br>Notes)             | 4'-11             | 120                                   | 17.186       | ***** Route 12 *****<br>Sprinkler,<br><br>2E(2'-0), T(5'-0)                                                                                         |
| 43     | 19'-0            |          | 23.22                          | 1.0490     |                            | 9'-0              | 0.171456                              | -0.867       |                                                                                                                                                     |
|        |                  |          |                                |            |                            | 13'-11            |                                       | 2.387        |                                                                                                                                                     |
|        |                  |          |                                |            |                            |                   |                                       | 18.706       | Total(Pt) Route 12                                                                                                                                  |

## Equivalent Pipe Lengths of Valves and Fittings (C=120 only)

## C Value Multiplier

$$\left( \frac{\text{Actual Inside Diameter}}{\text{Schedule 40 Steel Pipe Inside Diameter}} \right)^{4.87} = \text{Factor}$$

|                    |       |      |      |      |
|--------------------|-------|------|------|------|
| Value Of C         | 100   | 130  | 140  | 150  |
| Multiplying Factor | 0.713 | 1.16 | 1.33 | 1.51 |

## Fittings Legend

|                                |                           |                             |
|--------------------------------|---------------------------|-----------------------------|
| ALV Alarm Valve                | AngV Angle Valve          | b Bushing                   |
| BaIV Ball Valve                | BFP Backflow Preventer    | BV Butterfly Valve          |
| C Cross Flow Turn 90°          | cplg Coupling             | Cr Cross Run                |
| CV Check Valve                 | DeIV Deluge Valve         | DPV Dry Pipe Valve          |
| E 90° Elbow                    | EE 45° Elbow              | Ee1 11¼° Elbow              |
| Ee2 22½° Elbow                 | f Flow Device             | fd Flex Drop                |
| FDC Fire Department Connection | fE 90° FireLock(TM) Elbow | fEE 45° FireLock(TM) Elbow  |
| flg Flange                     | FN Floating Node          | fT FireLock(TM) Tee         |
| g Gauge                        | GloV Globe Valve          | GV Gate Valve               |
| Ho Hose                        | Hose Hose                 | HV Hose Valve               |
| Hyd Hydrant                    | LtE Long Turn Elbow       | mecT Mechanical Tee         |
| Noz Nozzle                     | P1 Pump In                | P2 Pump Out                 |
| PIV Post Indicating Valve      | PO Pipe Outlet            | PRV Pressure Reducing Valve |
| PrV Pressure Relief Valve      | red Reducer/Adapter       | S Supply                    |
| sCV Swing Check Valve          | Spr Sprinkler             | St Strainer                 |
| T Tee Flow Turn 90°            | Tr Tee Run                | U Union                     |
| WirF Wirsbo                    | WMV Water Meter Valve     | Z Cap                       |