



# CONSTRUCTION PERMIT APPLICATION

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

## I. IDENTIFICATION

1. Proposed Work Site at: BRICK Memorial High School  
 2. Name of Owner in Fee: BRICK BOARD OF ED. Tel. (732) 262-2626  
 Address 2001 LANES MILLS RD BRICK 08723  
street municipality zip code  
 3. Ownership In Fee: Public ☒ Private ☐  
 4. Principal Contractor: WARDEN SECURITY Tel. (732) 363-0550  
 Address P.O. Box 44 HOWELL N.J. 07727  
 License No. OR, if new home, Builder Reg. No. \_\_\_\_\_ Exp. Date \_\_\_\_\_  
 Federal Employee No: 22-3330961 FAX: (732) 901-1614  
 5. Architect or Engineer \_\_\_\_\_ Tel. ( ) \_\_\_\_\_  
 Address \_\_\_\_\_  
 6. Responsible Person in Charge of Work EDWARD R WARDELL  
 Tel. (732) 363-0550 FAX (732) 901-1614

Replace Alarms

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

|                                   |    | Update | Update |
|-----------------------------------|----|--------|--------|
| 1. Building                       | \$ |        |        |
| 2. Electrical                     | \$ |        |        |
| 3. Plumbing                       | \$ |        |        |
| 4. Fire Protection                | \$ |        |        |
| 5. Elevator Devices               | \$ |        |        |
| 6. Subtotal                       | \$ |        |        |
| 7. Less 20% for State Plan Review | \$ |        |        |
| 8. Subtotal                       | \$ |        |        |
| 9. DCA Training Fee               | \$ |        |        |
| 10. Subtotal                      | \$ |        |        |
| 11. Cert. of Occupancy            | \$ |        |        |
| 12. Other                         | \$ |        |        |
| 13. TOTAL                         | \$ |        |        |

## VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories \_\_\_\_\_  
 2. Height of Structure \_\_\_\_\_ ft.  
 3. Area — Largest Floor \_\_\_\_\_ sq. ft.  
 4. New Building Area \_\_\_\_\_ sq. ft.  
 5. Volume of New Structure \_\_\_\_\_ cu. ft.  
 6. Construction Classification \_\_\_\_\_  
 7. Total Land Area Disturbed \_\_\_\_\_ sq. ft.  
 8. Flood Hazard Zone \_\_\_\_\_  
 9. Base Flood Elevation \_\_\_\_\_ ft.  
 10. Wetlands yes \_\_\_\_\_  
 no \_\_\_\_\_  
 11. Max. Live Load \_\_\_\_\_  
 12. Max. Occupancy Load \_\_\_\_\_

(office use only)

| II. PROPOSED WORK                                      | Est. Cost | OPTIONAL (for office use only) |            |                |               |           |                   |           |
|--------------------------------------------------------|-----------|--------------------------------|------------|----------------|---------------|-----------|-------------------|-----------|
|                                                        |           | Plans Rec'd by                 | Date Rec'd | Rejection Date | Approval Date | Re-viewer | Resubmission Date | Re-viewer |
| 1. <input type="checkbox"/> Minor Work                 |           |                                |            |                |               |           |                   |           |
| 2. <input type="checkbox"/> New Building               |           |                                |            |                |               |           |                   |           |
| 3. <input type="checkbox"/> Addition                   |           |                                |            |                |               |           |                   |           |
| 4. <input type="checkbox"/> Alteration                 |           |                                |            |                |               |           |                   |           |
| 5. <input checked="" type="checkbox"/> Fire Protection | 14,000    |                                |            |                | 8-30-01       | SC        | 10/21/03          |           |
| 6. <input type="checkbox"/> Plumbing                   |           |                                |            |                |               |           |                   |           |
| 7. <input checked="" type="checkbox"/> Electrical      | 3500      |                                |            |                | 8-29-01       | TO        |                   |           |
| 8. <input type="checkbox"/> Elevator Devices           |           |                                |            |                |               |           |                   |           |
| 9. <input type="checkbox"/> Asbestos Abat. Subch. 8    |           |                                |            |                |               |           |                   |           |
| 10. <input type="checkbox"/> Lead Hazard Abatement     |           |                                |            |                |               |           |                   |           |
| 11. <input type="checkbox"/> Demolition                |           |                                |            |                |               |           |                   |           |
| TOTAL COSTS                                            | 17,500    |                                |            |                |               |           |                   |           |

## IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/  
Dumbwaiters/Moving Walks  
 2. ☐ High Pressure Boilers  
 3. ☐ Pressure Vessels  
 4. ☐ Refrigeration Systems  
 5. ☐ Cross-Connections/Backflow Preventers  
 6. ☐ Hazardous Uses/Places of Assembly  
 7. ☐ Sprinklers  
 8. ☐ Smoke Control Systems in Open Wells  
 9. ☐ Underground Storage Tanks

## VII. DESCRIPTION OF BUILDING USE

### A. RESIDENTIAL

1. ☐ Hotels (R-1)  
 2. ☐ Multi-Family (R-2)  
 3. ☐ Two-Family (R-3) BOCA  
 4. ☐ Two-Family (R-4) CABO  
 5. ☐ One-Family (R-3) BOCA  
 6. ☐ One-Family (R-4) CABO

No. of dwelling units:

Before Construction \_\_\_\_\_  
 After Construction \_\_\_\_\_  
 Net Gain or Loss \_\_\_\_\_

### B. NON-RESIDENTIAL

1. State Specific Use: \_\_\_\_\_  
 2. Use Group: \_\_\_\_\_  
 3. Change in Use Group, Indicate Former: \_\_\_\_\_

## III. DO YOU WANT: (optional)

1. ☐ Partial Releases  
 2. ☐ Prototype Processing

## CERTIFICATION IN LIEU OF OATH

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

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

Mark the following applicable boxes:

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

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

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

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

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

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

I further certify that I will perform the following work:

C.3. ☐ Electrical                      C.4. ☐ Plumbing

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

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

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

Signature \_\_\_\_\_ Date \_\_\_\_\_

### II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

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

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

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

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

☒ Check if contractor.

Agent Name WARDELL Security Services

Address P.O. Box 44

Howell NJ 07727

Telephone (732) 363-0550

Signature Ed B. Wardell

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

| VIII. PRIOR APPROVALS CHECKLIST<br>(office use only)                 | LOCAL APPROVAL    |            | COUNTY APPROVAL   |            | REGIONAL APPROVAL |            | STATE APPROVAL    |            | COMMENTS |
|----------------------------------------------------------------------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|----------|
|                                                                      | Prelimin. Initial | Final Date | Prelimin. Initial | Final Date | Prelimin. Initial | Final Date | Prelimin. Initial | Final Date |          |
| <input type="checkbox"/> Zoning Officer                              |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Planning Board                              |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Zoning Board                                |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Sewer Authority                             |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Water Authority                             |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Police Department                           |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Health Department                           |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Soil Conservation                           |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> N.J. Department of Community Affairs        |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> N.J. Department of Transportation           |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> N.J. Department of Environmental Protection |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Utility Dig No.                             |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/>                                             |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/>                                             |                   |            |                   |            |                   |            |                   |            |          |

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

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

**X. CERTIFICATES ISSUED (office use only)**

|                                                               | DATE ISSUED | DATE EXPIRED | DATE REISSUED | DATE EXPIRED |
|---------------------------------------------------------------|-------------|--------------|---------------|--------------|
| <input type="checkbox"/> Temporary Certificate of Occupancy   | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Temporary Certificate of Compliance  | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Continued Certificate of Occupancy   | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Certificate of Compliance            | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Certificate of Occupancy             | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Certificate of Approval              | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Lead Abatement Clearance Certificate | No. _____   | _____        | _____         | _____        |

TOWNSHIP OF BRICK  
401 CHAMBERS BRIDGE RD  
DIVISION OF INSPECTIONS

UCC NEW JERSEY  
CONSTRUCTION  
PERMIT

Date Issued 08/30/2001  
Control #  
Permit # 01-3208

IDENTIFICATION Block 1211 Lot 2 Qual

Work Site Location 2001 LANCES HILL RD

REPLACE ALARMS

Owner in Fee BRICK BOARD OF EDUCATION

Address

SALE  
BRICK, NJ 08723-

Telephone (732)262-2626

Contractor EBB INC WARDEN SECURITY SERV  
PO BOX 44

Address HONOLULU, HI 96813-0001

Telephone (732)363-0550

Lic. No. or Bldgs. Reg. No.

Federal Reg. No. 22-3330961

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

DESCRIPTION OF WORK:  
REPLACE ALARMS - CONTROL PANEL

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 \$ 17,500

Construction Official *[Signature]*

08/30/2001  
Date

B.C.C. #170 (rev. 3/95)

PAYMENTS (Office Use Only)

|                    |   |
|--------------------|---|
| Building           | 0 |
| Electrical         | 0 |
| Plumbing           | 0 |
| Fire Protection    | 0 |
| Elevator Devices   | 0 |
| Other              | 0 |
| DCA Training Fee   | 0 |
| Cert. of Occupancy | 0 |
| Total              | 0 |
| Check No.          |   |
| Cash               |   |
| Collected By       |   |

TOWNSHIP OF BRICK  
401 CHAMBERS BRIDGE RD  
DIVISION OF INSPECTIONS

USE NEW JERSEY  
ELECTRICAL  
SUBCODE  
TECHNICAL SECTION

Date Received 08/16/2001  
Date Issued 8/20/01  
Control # C16111  
Permit # 01-3208

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

D. TECHNICAL SITE DATA  
NO. SITE ITEM

FEE (Office Use Only)

Block 1211 Lot 2 Quai  
Work Site Location 2001 LAKES MILL RD  
REPLACE ALARMS

Lighting fixtures  
Receptacles  
Switches  
Detectors  
Light Poles  
Motors-fract HP  
Emergency & Exit lights  
Communications Points  
Alarm Devices/F.A.C. Panel

35

Owner in Fee BRICK BOARD OF EDUCATION  
Address SAME  
BRICK, NJ 08723-

Pool Permit/with UM lights  
Storable Pool/Spa/Hot Tub  
KM Elect Range/Receptacle  
KM Oven/Surface Unit  
KM Elect Water Heater  
KM Elect Dryer/Receptacle  
KM Dishwasher  
HP Garbage Disposal  
KM Central A/C Unit  
HP/KM Space Heater/Air Handler  
Baseboard Heat  
HP Motors 1/4 HP  
KM Transformer/Generator  
AMP Service  
AMP Subpanels  
AMP Motor Control Center  
KM Elect Sign/Outline light  
Other

0

Tele. (332) 363-0550 Fax ( )  
Contractor ERM INC MARDELL SECURITY SERV  
Address PO BOX 44  
HOWELL, NJ 07731-

TOTAL NUMBERS

0

Tele. (332) 363-0550  
Lic. No. or Bldgs. Reg. No.  
Federal Emp. No. 22-3350961

0

0

B. ELECTRICAL CHARACTERISTICS

Use Group - Present U Proposed U  
[ ] Pole/Pad # [ ] Temporary [ ] Other  
Building Occupied as Utility Co.  
Estimated Cost of Electrical Work \$ 3,500

0

0

JOB SUMMARY (Office Use Only)

PLAN REVIEW  
[ ] No Plans Required  
Joint Plan Review Required:  
[ ] Bldg [ ] Plumb  
[ ] Fire [ ] Elevator  
[ ] Elect Plans Approved  
Date: 8-29-01  
Approved By: [Signature]  
SUBCODE APPROVAL  
[ ] CO [ ] CCO [ ] CA  
Date: \_\_\_\_\_  
Approved By: \_\_\_\_\_

INSPECTIONS  
Type Failure Failure Approval Initial  
Rough  
Temp Serv  
Const Serv  
TCO  
Other  
Service  
Final

0

Temp. Cut-in-Card Date Issued  
Final Cut-in-Card Date Issued

0

0

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.

Paid [ ] Check #  
Collected by: \_\_\_\_\_

Administrative Surcharge \$  
Minimum Fee \$  
TOTAL FEE \$  
OCA Training Fee \$

Applicant's Signature/Contractor's Seal and Signature  
[ ] Licensed Electrical Contractor [ ] Exempt Applicant

UCC NEW JERSEY  
ELECTRICAL  
SUBCODE  
TECHNICAL SECTION

01-3208

## FEE (office use only)

FEE (office use only)

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C.C. F120 (rev. 3/96)

U.C.C. §120 (rev. 3/96)

TOWNSHIP OF BRICK  
401 CHAMBERS BRIDGE RD  
DIVISION OF INSPECTIONS

UCC NEW JERSEY  
ELECTRICAL  
SUBCODE  
TECHNICAL SECTION

Date Received 08/16/2001  
Date Issued 8/16/01  
Control # C16411  
Permit # 01-3228

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

D. TECHNICAL SITE DATA  
NO. SIZE ITEM

FEE (Office Use Only)

Block 1211 Lot 2 Qual  
Work Site Location 2001 LAMES MILL RD  
REPLACE ALARMS

Lighting Fixtures  
Receptacles  
Switches  
Detectors  
Light Poles  
Motors-Fract HP  
Emergency & Exit Lights  
Communications Points  
Alarm Devices/F.A.C. Panel  
TOTAL NUMBERS

Owner in Fee BRICK BOARD OF EDUCATION  
Address SOME  
BRICK, NJ 08723-

Pool Perail/with UM Lights  
Storable Pool/Spa/Hot Tub  
KM Elect Range/Receptacle  
KM Oven/Surface Unit  
KM Elect Water Heater  
KM Elect Dryer/Receptacle  
KM Dishwasher  
HP Garbage Disposal  
KM Central A/C Unit  
HP/KM Space Heater/Air Handler  
Baseboard Heat  
HP Motors 1/4 HP  
KM Transformer/Generator  
AMP Service  
AMP Subpanels  
AMP Motor Control Center  
KM Elect Sign/Outline Light  
Other  
Other

Tele. (332)363-0550 Fax ( )  
Contractor ERM INC. MARBELL SECURITY SERV  
Address PO BOX 44  
HOWELL, NJ 07731-

35

Tele. (332)363-0550  
Lic. No. or Bids. Reg. No.  
Federal Emp. No. 22-3330961

0

B. ELECTRICAL CHARACTERISTICS  
Use Group - Present 0 Proposed 0  
[ ] Pole/Pad [ ] Temporary [ ] Other  
Building Occupied as Utility Co.  
Estimated Cost of Electrical Work \$ 3,500

0

JOB SUMMARY (Office Use Only)  
PLAN REVIEW  
[ ] No Plans Required  
Joint Plan Review Required:  
[ ] Bldg [ ] Plumb  
[ ] Fire [ ] Elevator  
[ ] Elect Plans Approved  
Date: 8-29-01  
Approved By: [Signature]  
SUBCODE APPROVAL  
[ ] CO [ ] CCO [ ] CA  
Date: \_\_\_\_\_  
Approved By: \_\_\_\_\_

0

INSPECTIONS  
Type Failure Failure Approval Initial  
Rough  
Temp Serv  
Const Serv  
TCO  
Other  
Service  
Final

0

Temp. Cut-In-Card Date Issued  
Final Cut-In-Card Date Issued

0

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.

0

Applicant's Signature/Contractor's Seal and Signature  
[ ] Licensed Electrical Contractor [ ] Exempt Applicant

0

Administrative Surcharge  
Minimum Fee  
TOTAL FEE  
OCA Training Fee

0

U.C.C. #120 (rev. 3/96)

0

TOWNSHIP OF BRICK  
401 CHAMBERS BRIDGE RD  
DIVISION OF INSPECTIONS

UCC NEW JERSEY  
FIRE PROTECTION  
SUBCODE  
TECHNICAL SECTION

Date Received 08/16/2001  
Date Issued 8/30/01  
Control # C1611  
Permit # 01-3208

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

Block 1211 Lot 2 Qual  
Work Site location 2001 LANES MILL RD

REPLACE ALARMS

Owner in fee BRICK BOARD OF EDUCATION

Address SAME

BRICK, NJ 08723-

Tele. (732) 363-0550 Fax ( )

Contractor EBM INC MARDELL SECURITY SERV

Address PO BOX 44

HOMELL, NJ 07731-

Tele. (732) 363-0550

Lic. No. of Bldgs. Reg. No.

Federal Emp. No. 22-3339961

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present ☒ Proposed ☐  
Const-Class Present ☐ Proposed ☐

Heating Systems ☐ New ☐ Existing ☐ HVAC

Type: ☐ Gas ☐ Oil ☐ Elect ☐ Solar

☐ Other

Location:

Total Est Cost of Fire Prot Work \$ 14,000

JOB SUMMARY (Office Use Only)  
PLAN REVIEW

No Plans Required ☒ Direct  
Joint Plan Review Required: ☐ Type

☐ Bldg ☐ Elect

☐ Plumb ☐ Elevator

☐ Fire Plans Approved

Date: 8-30-01

Approved By: *DR*

SUBCODE APPROVAL

☐ CO ☐ CCO *CA*

Date: 10-21-03

Approved By: *DR*

INSPECTIONS  
Dates (Month/Day)

Alarm Sys Failure failure Approval Initial *10-21-03*

Suppr Test

Standpipe

Fire Pump

PreEng Sys

Mechanical

Smoke Ctl

TCO

Final

Other

D. TECHNICAL SITE DATA

Description of Work:

Water Supply Source

Method of Alarm/Suppr Sys Superv

Storage Tanks

Type: ☐ Flammable Liquid ☐ Combust Liquid

☐ LPG ☐ LNG Capacity 0 Fuel

Alarm Systems ☐ 110v Interconnected ☐ System

Alarm Devices (smoke, heat, pulls, water/flow)

Supervisory Devices (tamper, low/high air)

Signalling Devices (horn/strobes, bells)

Other Devices

TOTAL

Suppression Systems

Fire Pump 0 GPM Type

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Pre-Engineered Systems

Met Chemical

Dry Chemical

CO2 Suppression

Foam Suppression

Halon Suppression

Other

Kitchen Hood Exhaust System

Smoke Control System

Gas ☐ or Oil ☐ Fired Appliances

Other REPLACE PANEL

Other

Administrative Surcharge

Paid ☐ Check \$

Minimum Fee

Collected by: TOTAL FEE

DCA Training Fee

FEE (Office Use Only)

Signature



DIVISION OF INSPECTIONS  
401 CHAMBERS BRIDGE RD  
TOMMINSVILLE OF BRICK

TECHNICAL SECTION  
SUBCODE  
FIRE PROTECTION  
NOC NEW JERSEY

Serial #  
Control # C16-17  
Date issued  
Date Received 08/19/2001

TARAK Patch Cover Super  
7326203858

Form with multiple lines for data entry, mostly blank or faintly visible text.

Form with multiple lines for data entry, mostly blank or faintly visible text.

TOWNSHIP OF BRICK  
401 CHAMBERS BRIDGE RD  
DIVISION OF INSPECTIONS

UCC NEW JERSEY  
FIRE PROTECTION  
SUBCODE  
TECHNICAL SECTION

Date Received 08/15/2001  
Date Issued 8/15/01  
Control # 01-3208  
Permit #

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

Block 1211 Lot 2 Quad  
Work Site Location 2001 LAMES HILL RD  
REPLACE ALARMS

Owner In Fee BRICK BOARD OF EDUCATION  
Address SAME  
BRICK, NJ 08123-  
Tele: (732) 363-0550 Fax ( )  
Contractor EDW INC MODEL SECURITY SERV  
Address PO BOX 44  
HOMELL, NJ 07731-  
Tele: (732) 363-0550  
Lic. No. or Bldgs. Reg. No.  
Federal Emp. No. 22-3330561

B. FIRE PROTECTION CHARACTERISTICS  
Use Group Present U Proposed U  
Constr Class Present Proposed  
Heating Systems [ ] New [ ] Existing [ ] HVAC  
Type: [ ] Gas [ ] Oil [ ] Elect [ ] Solar  
[ ] Other  
Location:  
Total Est Cost of Fire Prot Work \$ 14,000

JOBS SUMMARY (Office Use Only)  
PLAN REVIEW  
[ ] No Plans Required  
[ ] Joint Plan Review Required:  
[ ] Bidg [ ] Elect  
[ ] Plumb [ ] Elevator  
[ ] Fire Plans Approved  
Date: 8-15-01  
Approved By: [Signature]  
SUBCODE APPROVAL  
[ ] CO [ ] CCO [ ] CA  
Date: \_\_\_\_\_  
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.

| INSPECTIONS | Dates (Month/Day)                |
|-------------|----------------------------------|
| Alarm Sys   | Failure Failure Approval Initial |
| Suppr Test  |                                  |
| Standpipe   |                                  |
| Fire Pump   |                                  |
| Preteg Sys  |                                  |
| Mechanical  |                                  |
| Smoke Ctl   |                                  |
| TCO         |                                  |
| Final       |                                  |
| Other       |                                  |

TECHNICAL SITE DATA  
Description of Work:  
Water Supply Source  
Method of Alarm/Suppr Sys Superv  
Storage Tanks  
Type: [ ] Flammable Liquid [ ] Combust Liquid  
[ ] LPG [ ] LNG Capacity 0 Fuel  
Alarm Systems [ ] 110V Interconnected NUMBER  
[ ] System

Alarm Devices (smoke, heat, pulls, water/flow) 0  
Supervisory Devices (tamper, low/high air) 0  
Signalling Devices (horn/strobes, bells) 0  
Other Devices 0  
TOTAL 0  
Suppression Systems  
Fire Pump 0 GPM Type 0  
Dry Pipe/Alarm Valves 0  
Pre-action Valves 0  
Sprinkler Heads (dry and wet) 0  
Standpipes 0  
Pre-engineered Systems 0  
Wet Chemical 0  
Dry Chemical 0  
CO2 Suppression 0  
Foam Suppression 0  
Halon Suppression 0  
Other 0

Kitchen Hood Exhaust System 0  
Smoke Control System 0  
Gas [ ] or Oil [ ] Fired Appliances 0  
Other REPLACE PANEL 35  
Other 0

Paid [ ] Check # \_\_\_\_\_  
Collected by: \_\_\_\_\_  
Administrative Surcharge \$ 0  
Minimum Fee \$ 0  
TOTAL FEE \$ 0  
OCA Training Fee \$ 0

Signature

TOWNSHIP OF BRICK  
401 CHAMBERS BRIDGE RD  
DIVISION OF INSPECTIONS

UCC NEW JERSEY  
FIRE PROTECTION  
SUBCODE  
TECHNICAL SECTION

Date Received 08/16/2001  
Date Issued 8/16/01  
Control # c1611  
Permit # 01-3208

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

Block 1211 Lot 2 Qual

Work Site Location 2001 LAMES MILL RD

REPLACE ALARMS

Owner In Fee BRICK BOARD OF EDUCATION

Address SAME

BRICK, NJ 08723-

Tele. (732) 363-0550 Fax ( )

Contractor EBM INC MARDELL SECURITY SERV

Address PO BOX 44

HOBELL, NJ 07731-

Tele. (732) 363-0550

Lic. No. or Bldgs. Reg. No.

Federal Emp. No. 22-3330961

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present U Proposed U  
Constr Class Present Proposed  
Heating Systems [ ] New [ ] Existing [ ] HVAC  
Type: [ ] Gas [ ] Oil [ ] Elect [ ] Solar  
[ ] Other  
Location:  
Total Est Cost of Fire Prot Work \$ 14,000

JOBS SUMMARY (Office Use Only)

PLAN REVIEW

Joint Plan Review Required: [ ]  
Type Alarm Sys

Supp Test

Standpipe

Fire Pump

Prefeng Sys

Mechanical

Smoke Ctl

TCO

Final

Other

DATES (Month/Day)

Failure Failure Approval Initial

D. TECHNICAL SITE DATA

Description of Work:

Water Supply Source

Method of Alarm/Suppr Sys Superv

Storage Tanks

Type: [ ] Flammable Liquid [ ] Combust Liquid  
[ ] LPG [ ] LMS Capacity 0 Fuel

Alarm Systems [ ] 110V Interconnected NUMBER

[ ] System

Alarm Devices (Smoke, heat, gulls, water, flow)

Supervisory Devices (tappers, low/high air)

Signalling Devices (horn/strobes, bells)

Other Devices

TOTAL

Suppression Systems

Fire Pump 0 GPM Type

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Pre-Engineered Systems

Met Chemical

Dry Chemical

CO2 Suppression

Foam Suppression

Halon Suppression

Other

Kitchen Hood Exhaust System

Smoke Control System

Gas [ ] or Oil [ ] Fired Appliances

Other REPLACE PANEL

Other

FEE (Office Use Only)

Administrative Surcharge

Paid [ ] Check #

Minimum Fee

Collected by: TOTAL FEE

DCA Training Fee

Signature

## SpectrAlert Horns, Strobes, and Horn/Strobes

**24 volt:** P2415, P2430, P241575, P2475, P24110

The Products to which this manual applies may be covered by one or more of the following U.S. Patent numbers: 5,914,665; 5,850,178; 5,598,139; 6,049,446; 5,593,569



# SYSTEM SENSOR

A Division of Pittway

[www.systemsensor.com](http://www.systemsensor.com)

**SPECTRAAlert**

Panels typically supply DC-filtered voltage or FWR (full-wave rectified)

## Strobe Only:

| Candela | AVERAGE CURRENT (mA) |     |     |     |     |     |            |     |     |     |     |     | PEAK CURRENT (mA) |     |     |     |     |     |            |     |     |     |     |     | IN RUSH CURRENT (mA) |     |     |     |     |     |            |     |     |     |     |     |
|---------|----------------------|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|-------------------|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|
|         | 12V Models           |     |     |     |     |     | 24V Models |     |     |     |     |     | 12V Models        |     |     |     |     |     | 24V Models |     |     |     |     |     | 12V Models           |     |     |     |     |     | 24V Models |     |     |     |     |     |
|         | 10.5V                | 12V | 17V | 20V | 24V | 30V | 10.5V      | 12V | 17V | 20V | 24V | 30V | 10.5V             | 12V | 17V | 20V | 24V | 30V | 10.5V      | 12V | 17V | 20V | 24V | 30V | 10.5V                | 12V | 17V | 20V | 24V | 30V | 10.5V      | 12V | 17V | 20V | 24V | 30V |
| 15      | 133                  | 159 | 114 | 157 | 81  | 128 | 50         | 81  | 43  | 60  | 38  | 60  | 460               | 460 | 450 | 450 | 420 | 480 | 135        | 204 | 135 | 208 | 135 | 185 | 80                   | 108 | 92  | 124 | 140 | 190 | 97         | 129 | 118 | 132 | 147 | 198 |
| 15/75   | 168                  | 182 | 142 | 171 | 99  | 160 | 86         | 85  | 49  | 64  | 44  | 62  | 490               | 520 | 490 | 520 | 480 | 480 | 150        | 189 | 150 | 207 | 160 | 198 | 78                   | 104 | 88  | 128 | 160 | 186 | 97         | 135 | 118 | 164 | 147 | 211 |
| 30      | NA                   | NA  | NA  | NA  | NA  | NA  | 78         | 84  | 87  | 82  | 58  | 72  | NA                | NA  | NA  | NA  | NA  | NA  | 183        | 201 | 183 | 218 | 183 | 218 | NA                   | NA  | NA  | NA  | NA  | NA  | 97         | 129 | 118 | 152 | 147 | 198 |
| 75      | NA                   | NA  | NA  | NA  | NA  | NA  | 145        | 170 | 123 | 159 | 102 | 141 | NA                | NA  | NA  | NA  | NA  | NA  | 350        | 440 | 340 | 460 | 330 | 480 | NA                   | NA  | NA  | NA  | NA  | NA  | 190        | 240 | 230 | 280 | 290 | 380 |
| 110*    | NA                   | NA  | NA  | NA  | NA  | NA  | 169        | 220 | 140 | 191 | 115 | 174 | NA                | NA  | NA  | NA  | NA  | NA  | 460        | 560 | 450 | 570 | 420 | 620 | NA                   | NA  | NA  | NA  | NA  | NA  | 190        | 230 | 220 | 290 | 290 | 370 |

\*75cd models with colored lens

## Horn Only:

| Tone               | High/Low Volume | Temp /Non | AVERAGE CURRENT (mA) |     |     |     |     |     |            |     |     |     |     |     | PEAK CURRENT (mA) |     |     |     |     |     |            |     |     |     |     |     |
|--------------------|-----------------|-----------|----------------------|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|-------------------|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|
|                    |                 |           | 12V Models           |     |     |     |     |     | 24V Models |     |     |     |     |     | 12V Models        |     |     |     |     |     | 24V Models |     |     |     |     |     |
|                    |                 |           | 10.5V                | 12V | 17V | 20V | 24V | 30V | 10.5V      | 12V | 17V | 20V | 24V | 30V | 10.5V             | 12V | 17V | 20V | 24V | 30V | 10.5V      | 12V | 17V | 20V | 24V | 30V |
| Electro-mech.      | High            | Temp      | 10                   | 11  | 10  | 10  | 14  | 14  | 19         | 21  | 25  | 18  | 29  | 28  | 10                | 11  | 10  | 10  | 14  | 14  | 19         | 21  | 25  | 18  | 29  | 28  |
|                    |                 | Non       | 10                   | 16  | 10  | 19  | 14  | 25  | 17         | 29  | 23  | 34  | 30  | 42  | 10                | 16  | 10  | 19  | 14  | 25  | 17         | 29  | 23  | 34  | 30  | 42  |
|                    | Low             | Temp      | NA                   | NA  | NA  | NA  | NA  | NA  | 11         | 12  | 13  | 13  | 17  | 15  | NA                | NA  | NA  | NA  | NA  | NA  | 11         | 12  | 13  | 13  | 17  | 15  |
|                    |                 | Non       | NA                   | NA  | NA  | NA  | NA  | NA  | 12         | 16  | 14  | 19  | 17  | 24  | NA                | NA  | NA  | NA  | NA  | NA  | 12         | 16  | 14  | 19  | 17  | 24  |
| 3000 Hz Interrupt. | High            | Temp      | 11                   | 13  | 11  | 11  | 16  | 16  | 24         | 26  | 28  | 23  | 37  | 33  | 11                | 13  | 11  | 11  | 16  | 16  | 24         | 26  | 28  | 23  | 37  | 33  |
|                    |                 | Non       | 11                   | 17  | 11  | 21  | 14  | 28  | 19         | 34  | 27  | 39  | 35  | 45  | 11                | 17  | 11  | 21  | 14  | 28  | 19         | 34  | 27  | 39  | 35  | 45  |
|                    | Low             | Temp      | NA                   | NA  | NA  | NA  | NA  | NA  | 14         | 14  | 17  | 15  | 21  | 19  | NA                | NA  | NA  | NA  | NA  | NA  | 14         | 14  | 17  | 15  | 21  | 19  |
|                    |                 | Non       | NA                   | NA  | NA  | NA  | NA  | NA  | 13         | 18  | 16  | 21  | 22  | 25  | NA                | NA  | NA  | NA  | NA  | NA  | 13         | 18  | 16  | 21  | 22  | 25  |

## Horn/Strobe 15 cd:

| Tone               | High/Low Volume | Temp /Non | AVERAGE CURRENT (mA) |     |     |     |     |     |            |     |     |     |     |     | PEAK CURRENT (mA) |     |     |     |     |     |            |     |     |     |     |     |
|--------------------|-----------------|-----------|----------------------|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|-------------------|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|
|                    |                 |           | 12V Models           |     |     |     |     |     | 24V Models |     |     |     |     |     | 12V Models        |     |     |     |     |     | 24V Models |     |     |     |     |     |
|                    |                 |           | 10.5V                | 12V | 17V | 20V | 24V | 30V | 10.5V      | 12V | 17V | 20V | 24V | 30V | 10.5V             | 12V | 17V | 20V | 24V | 30V | 10.5V      | 12V | 17V | 20V | 24V | 30V |
| Electro-mech.      | High            | Temp      | 143                  | 170 | 124 | 167 | 95  | 142 | 89         | 82  | 68  | 78  | 67  | 87  | 143               | 170 | 124 | 167 | 95  | 142 | 89         | 82  | 68  | 78  | 67  | 87  |
|                    |                 | Non       | 143                  | 170 | 124 | 167 | 95  | 142 | 89         | 82  | 68  | 78  | 67  | 87  | 143               | 170 | 124 | 167 | 95  | 142 | 89         | 82  | 68  | 78  | 67  | 87  |
|                    | Low             | Temp      | NA                   | NA  | NA  | NA  | NA  | NA  | 81         | 73  | 56  | 73  | 55  | 76  | NA                | NA  | NA  | NA  | NA  | NA  | 81         | 73  | 56  | 73  | 55  | 76  |
|                    |                 | Non       | NA                   | NA  | NA  | NA  | NA  | NA  | 82         | 77  | 57  | 79  | 55  | 85  | NA                | NA  | NA  | NA  | NA  | NA  | 82         | 77  | 57  | 79  | 55  | 85  |
| 3000 Hz Interrupt. | High            | Temp      | 144                  | 172 | 125 | 168 | 97  | 144 | 74         | 87  | 71  | 83  | 75  | 94  | 144               | 172 | 125 | 168 | 97  | 144 | 74         | 87  | 71  | 83  | 75  | 94  |
|                    |                 | Non       | 144                  | 173 | 125 | 168 | 95  | 146 | 89         | 95  | 70  | 99  | 73  | 106 | 144               | 173 | 125 | 168 | 95  | 146 | 89         | 95  | 70  | 99  | 73  | 106 |
|                    | Low             | Temp      | NA                   | NA  | NA  | NA  | NA  | NA  | 64         | 75  | 60  | 76  | 59  | 80  | NA                | NA  | NA  | NA  | NA  | NA  | 64         | 75  | 60  | 76  | 59  | 80  |
|                    |                 | Non       | NA                   | NA  | NA  | NA  | NA  | NA  | 63         | 79  | 59  | 81  | 60  | 86  | NA                | NA  | NA  | NA  | NA  | NA  | 63         | 79  | 59  | 81  | 60  | 86  |

## Horn/Strobe 1575 cd:

| Tone               | High/Low Volume | Temp /Non | AVERAGE CURRENT (mA) |     |     |     |     |     |            |     |     |     |     |     | PEAK CURRENT (mA) |     |     |     |     |     |            |     |     |     |     |     |
|--------------------|-----------------|-----------|----------------------|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|-------------------|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|
|                    |                 |           | 12V Models           |     |     |     |     |     | 24V Models |     |     |     |     |     | 12V Models        |     |     |     |     |     | 24V Models |     |     |     |     |     |
|                    |                 |           | 10.5V                | 12V | 17V | 20V | 24V | 30V | 10.5V      | 12V | 17V | 20V | 24V | 30V | 10.5V             | 12V | 17V | 20V | 24V | 30V | 10.5V      | 12V | 17V | 20V | 24V | 30V |
| Electro-mech.      | High            | Temp      | 178                  | 193 | 152 | 181 | 113 | 164 | 75         | 86  | 74  | 82  | 73  | 88  | 178               | 193 | 152 | 181 | 113 | 164 | 75         | 86  | 74  | 82  | 73  | 88  |
|                    |                 | Non       | 178                  | 193 | 152 | 181 | 113 | 164 | 73         | 94  | 72  | 88  | 74  | 104 | 178               | 193 | 152 | 181 | 113 | 164 | 73         | 94  | 72  | 88  | 74  | 104 |
|                    | Low             | Temp      | NA                   | NA  | NA  | NA  | NA  | NA  | 67         | 77  | 62  | 77  | 61  | 77  | NA                | NA  | NA  | NA  | NA  | NA  | 67         | 77  | 62  | 77  | 61  | 77  |
|                    |                 | Non       | NA                   | NA  | NA  | NA  | NA  | NA  | 68         | 81  | 63  | 83  | 61  | 96  | NA                | NA  | NA  | NA  | NA  | NA  | 68         | 81  | 63  | 83  | 61  | 96  |
| 3000 Hz Interrupt. | High            | Temp      | 179                  | 195 | 152 | 193 | 115 | 188 | 80         | 91  | 77  | 87  | 81  | 95  | 179               | 195 | 152 | 193 | 115 | 188 | 80         | 91  | 77  | 87  | 81  | 95  |
|                    |                 | Non       | 179                  | 196 | 152 | 193 | 113 | 188 | 76         | 99  | 76  | 103 | 79  | 107 | 179               | 196 | 152 | 193 | 113 | 188 | 76         | 99  | 76  | 103 | 79  | 107 |
|                    | Low             | Temp      | NA                   | NA  | NA  | NA  | NA  | NA  | 70         | 79  | 66  | 79  | 65  | 81  | NA                | NA  | NA  | NA  | NA  | NA  | 70         | 79  | 66  | 79  | 65  | 81  |
|                    |                 | Non       | NA                   | NA  | NA  | NA  | NA  | NA  | 69         | 83  | 65  | 85  | 68  | 87  | NA                | NA  | NA  | NA  | NA  | NA  | 69         | 83  | 65  | 85  | 68  | 87  |

## Sound Output Guide

|              |             |                     | UL Reverberant Room dBA @ volts DC |    |    |    |    |    | Anechoic dBA @10 ft./volts DC |    |    |     |     |     |
|--------------|-------------|---------------------|------------------------------------|----|----|----|----|----|-------------------------------|----|----|-----|-----|-----|
|              |             |                     | 10.5                               | 12 | 17 | 20 | 24 | 30 | 10.5                          | 12 | 17 | 20  | 24  | 30  |
| Temporal     | Low Volume  | Electromechanical   | NA                                 | NA | NA | 75 | 75 | 79 | NA                            | NA | NA | 94  | 96  | 98  |
|              |             | 3000 Hz Interrupted | NA                                 | NA | NA | 75 | 79 | 79 | NA                            | NA | NA | 94  | 96  | 98  |
|              | High Volume | Electromechanical   | 75                                 | 75 | 79 | 82 | 82 | 82 | 94                            | 95 | 98 | 100 | 101 | 102 |
|              |             | 3000 Hz Interrupted | 75                                 | 75 | 79 | 82 | 85 | 85 | 94                            | 95 | 98 | 100 | 101 | 102 |
| Non-Temporal | Low Volume  | Electromechanical   | NA                                 | NA | NA | 79 | 82 | 85 | NA                            | NA | NA | 94  | 96  | 98  |
|              |             | 3000 Hz Interrupted | NA                                 | NA | NA | 82 | 82 | 85 | NA                            | NA | NA | 94  | 96  | 98  |
|              | High Volume | Electromechanical   | 79                                 | 79 | 85 | 85 | 88 | 88 | 94                            | 95 | 98 | 100 | 101 | 102 |
|              |             | 3000 Hz Interrupted | 79                                 | 82 | 85 | 88 | 88 | 88 | 93                            | 95 | 98 | 100 | 101 | 102 |

The same number of devices using 12 AWG wire will produce only 2 volts drop. The same devices using 18 AWG wire will produce 8 volts drop. Consult your panel manufacturer's specifications, as well as SpectraAlert's operating voltage range to determine acceptable voltage drop.

## Horn Selections

Horns are factory set for high volume, temporal code, and electromechanical tone.

Tones:

Two tones may be selected using the jumper plugs located on the printed circuit board. With the jumper offset, the tone is the Electromechanical sound. With the jumper in place, the tone is a 3 kHz sound.

NOTE: When powered from FWR supply, tones will be modulated (turned on and off) by 120Hz causing the tones to sound different from DC power.

Temp/Non-Temp:

Temporal coding or Non-Temporal coding can be selected using the jumper plugs located on the printed circuit board. With the jumper offset, the tone pattern is the Temporal Coded Signal. With the jumper in place, the Non-Temporal code (continuous) tone is active.

High/Low Volume:

High or low volume may be selected using the jumper plugs located on the printed circuit board. With the jumper in place, the sound output level is the high level. With the jumper offset, the sound output level is the low level. The low volume setting must NOT be used when the device is powered from a 12-volt panel.

NOTE: Always power down devices before setting jumpers.

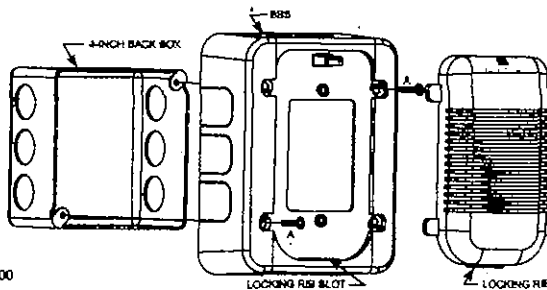
## Mounting Diagrams:

### Screw types used for mounting:

A = 8-32 x 1/4 flat head

B = 6-32 x 1 1/8 pan head

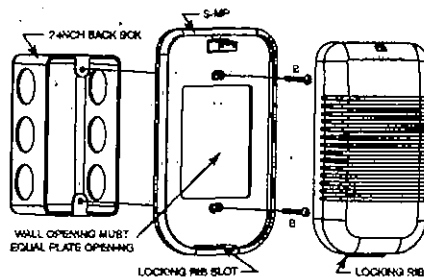
## Horn surface mount:



A78-2670-00

1. Mount skirt to back box with screws A.
  2. Complete field wiring.
  3. Insert locking rib on unit into slot on skirt.
  4. Press into skirt; unit will make a "click" when it has locked into place.
- (Note: Horn and skirt may also be mounted to a 2-inch box using screws B instead of screws A.)

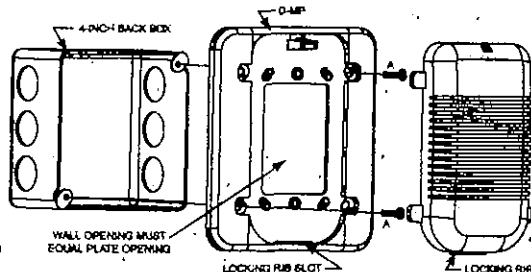
## Horn direct mount:



A78-2672-00

1. Mount plate to back box using screws B.
2. Break off four tabs from unit.
3. Complete field wiring, making sure wall opening is large enough for terminals to fit through.
4. Insert locking rib into slot on plate.
5. Press into plate; unit will make a "click" when it has locked into place.

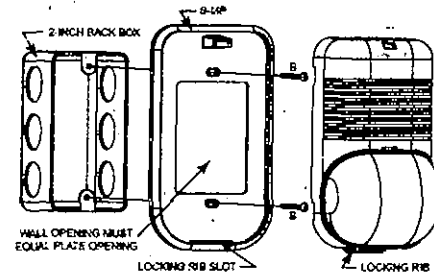
## Horn with universal mounting plate:



A78-2671-00

1. Mount plate to back box using screws A, making sure wall opening is equal to the plate opening.
2. Complete field wiring.
3. Insert locking rib into slot on plate.
4. Press into plate; unit will make a "click" when it has locked into place.

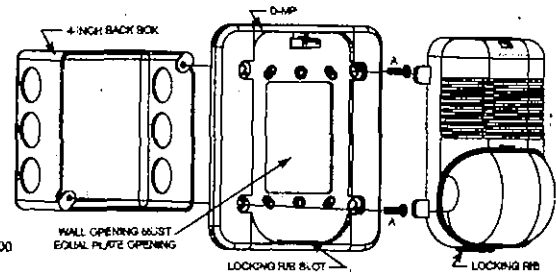
## Strobe or Horn/Strobe with small footprint mounting plate:



A78-2675-00

1. Mount plate to back box using screws B.
2. Break off four tabs from unit.
3. Complete field wiring, making sure wall opening is large enough for terminals to fit through.
4. Insert locking rib into slot on plate.
5. Press into plate; unit will make a "click" when it has locked into place.

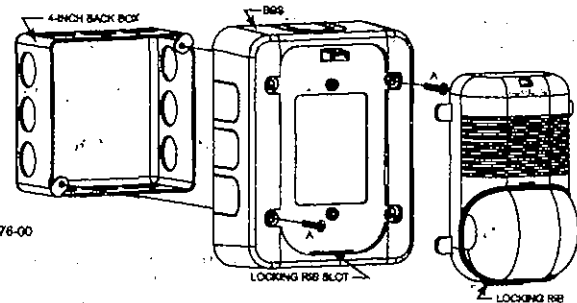
## Strobe or Horn/Strobe with universal mounting plate:



A78-2674-00

1. Mount plate to back box using screws A, making sure wall opening is equal to the plate opening.
2. Complete field wiring.
3. Insert locking rib into slot on plate.
4. Press into plate; unit will make a "click" when it has locked into place.

## Strobe or Horn/Strobe surface mount:

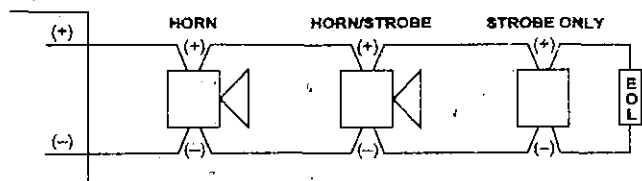


A78-2676-00

1. Mount skirt to back box with screws A.
  2. Complete field wiring.
  3. Insert locking rib on unit into slot on skirt.
  4. Press into skirt; unit will make a "click" when it has locked into place.
- (Note: Strobe and skirt may also be mounted to a 2-inch box using screws B instead of screws A.)

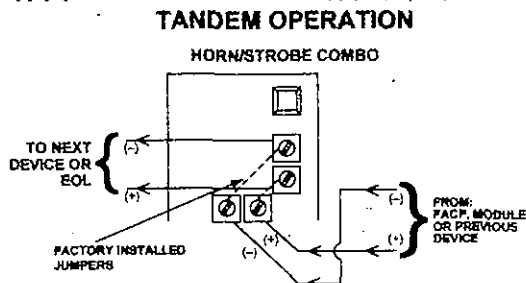
## System Operation: Non-Synchronized Devices

**Figure 1A. Any combination of models powered by a 2-wire circuit:**



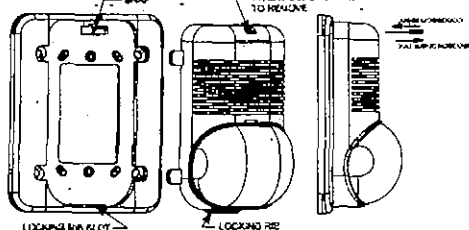
**Figure 1B: Horns and strobes powered in tandem:**

NOTE: Supply power must be continuous for proper operation.



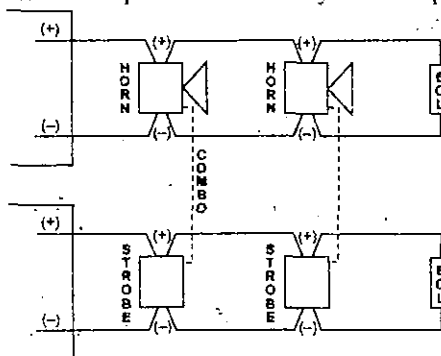
**Figure 3: Removal of horns and strobes from mounting plates:**

To remove units from mounting plates, insert screwdriver as shown to unlock snap. While pushing in screwdriver to release the snap, pull back on the horn/strobe. Hinge the horn/strobe module, disengage the Locking Rib, and lift the horn/strobe away from the mounting plate.



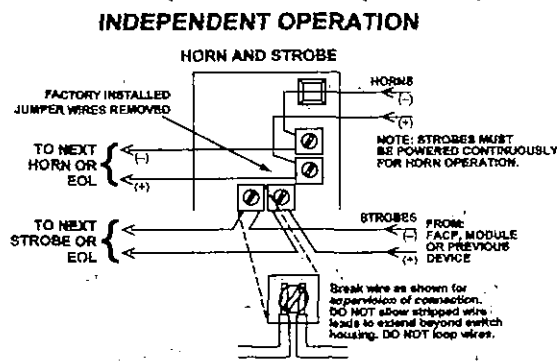
**Figure 2A. Any combination of models powered by a 4-wire circuit to provide independent horn and strobe operation (Remove factory installed jumpers, see Figure 2B):**

NOTE: Strobes must be powered continuously for horn operation.



**Figure 2B: Horns and strobes powered independently (Horn operated on coded power supply):**

NOTE: Strobes must be powered continuously for horn operation.



## Please refer to insert for the Limitations of Fire Alarm Systems

### WARNING

#### The Limitations of Horn/Strobes

**The horn and/or strobe will not work without power.** The horn/strobe gets its power from the fire/security panel monitoring the alarm system. If power is cut off for any reason, the horn/strobe will not provide the desired audio or visual warning.

**The horn may not be heard.** The loudness of the horn meets (or exceeds) current Underwriters Laboratories' standards. However, the horn may not alert a sound sleeper or one who has recently used drugs or has been drinking alcoholic beverages. The horn may not be heard if it is placed on a different floor from the person in hazard or if placed too far away to be heard over the ambient noise such as traffic, air conditioners, machinery or music appliances that may prevent alert persons from hearing the alarm. The horn may not be heard by persons who are hearing impaired.

NOTE: Strobes must be powered continuously for horn operation.

**The signal strobe may not be seen.** The electronic visual warning signal uses an extremely reliable xenon flash tube. It flashes at least once every second. The strobe must not be installed in direct sunlight or areas of high light intensity (over 60 foot candles) where the visual flash might be disregarded or not seen. The strobe may not be seen by the visually impaired.

**The signal strobe may cause seizures.** Individuals who have positive photic response to visual stimuli with seizures, such as persons with epilepsy, should avoid prolonged exposure to environments in which strobe signals, including this strobe, are activated.

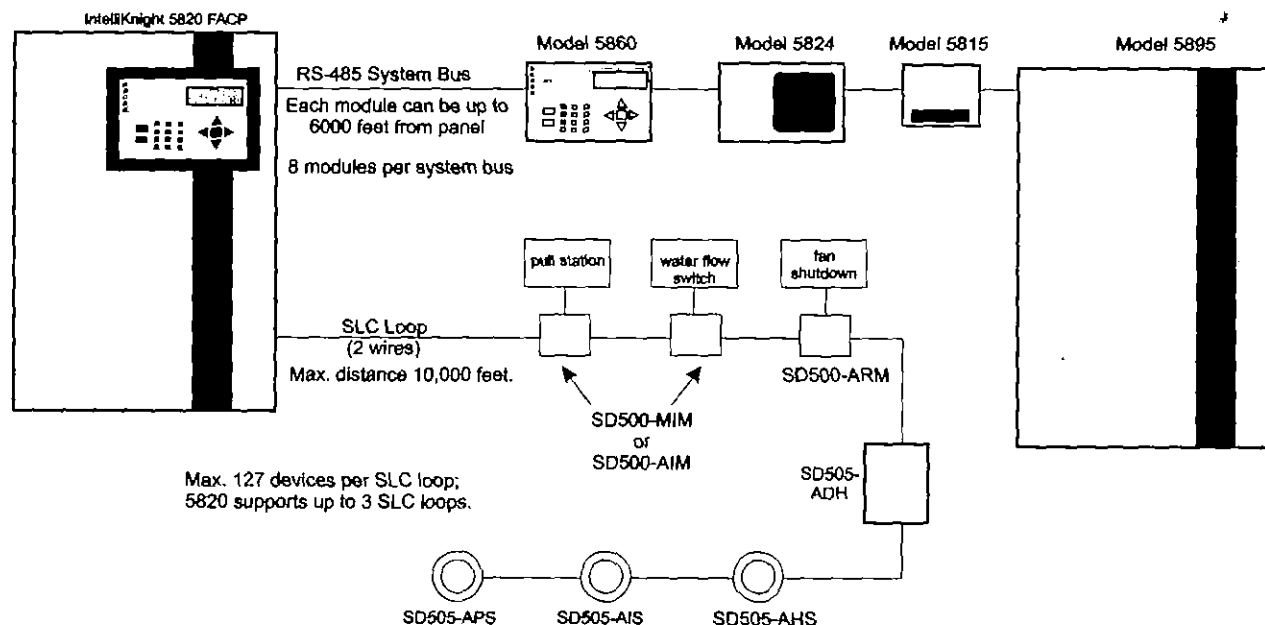
**The signal strobe cannot operate from coded power supplies.** Coded power supplies produce interrupted power. The strobe must have an uninterrupted source of power in order to operate correctly. System Sensor recommends that the horn and signal strobe always be used in combination so that the risks from any of the above limitations are minimized.

#### Three-Year Limited Warranty

System Sensor warrants its enclosed horn, strobe, or horn/strobe to be free from defects in materials and workmanship under normal use and service for a period of three years from date of manufacture. System Sensor makes no other express warranty for this horn, strobe, or horn/strobe. No agent, representative, dealer, or employee of the Company has the authority to increase or alter the obligations or limitations of this Warranty. The Company's obligation of this Warranty shall be limited to the repair or replacement of any part of the horn, strobe, or horn/strobe which is found to be defective in materials or workmanship under normal use and service during the three year period commencing with the date of manufacture. After phoning System Sensor's toll free number 800-SENSOR2 (736-7672) for a Return Authorization number, send defective units postage prepaid to:

System Sensor, Repair Department, RA #\_\_\_\_\_, 3825 Ohio Avenue, St. Charles, IL 60174. Please include a note describing the malfunction and suspected cause of failure. The Company shall not be obligated to repair or replace units which are found to be defective because of damage, unreasonable use, modifications, or alterations occurring after the date of manufacture. In no case shall the Company be liable for any consequential or incidental damages for breach of this or any other Warranty, expressed or implied whatsoever, even if the loss or damage is caused by the Company's negligence or fault. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

# IntelliKnight Model 5820 Analog/ Addressable Fire Alarm Control Panel



## SPECIFICATIONS

### Electrical Specifications

Primary AC: 240 / 120 VRMS at 50 / 60 hz, 2.5A

Total Accessory Load: 4A at 24 VDC

5 amps at 24 VDC of power-limited notification power

### Flexput®Circuits

Six programmable circuits which can be programmed individually as:

**Notification circuits:** 3 amps of power-limited power per circuit at 24 VDC.

**Auxiliary power circuits:** 3 amps of power-limited power per circuit at 24 VDC.

### INDICATOR LIGHTS:

GENERAL ALARM (Red) - On for alarm

SUPERVISORY (Yellow) - On when a supervisory condition exists.

SYSTEM TROUBLE (Yellow) - On when a trouble condition exists.

SYSTEM SILENCED (Yellow) - On when an alarm, trouble or supervisory condition has been silenced but not yet cleared.

SYSTEM POWER (Green) - On when power systems are normal; flashes for AC or DC failure.

### MECHANICAL SPECIFICATIONS:

Dimensions: 16"W x 26.4"H x 4.65"D  
(40.6 x 67 x 11.8 cm)

Weight: 28 lbs. (12.8 kg)

Color: Red

Telephone Requirements:

FCC Part 15 and Part 68 approved

Type of Jack: RJ31X (two required)

### APPROVALS:

UL Listing

NFPA 72

-Central Station

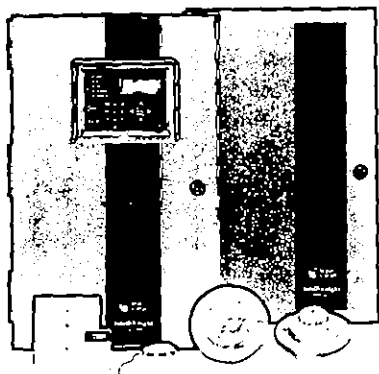
-Remote Signalling

-Local Protective Signalling Systems

-Auxiliary Protected Premises Unit

CFSM: 7165-0559: 130





### Analog Devices

IntelliKnight's analog devices feature a low profile design and EEPROM addressing. EEPROM addressing prevents water intrusion problems via the back of the sensor and eliminates mechanical failures related to decade switches.

#### Model SD505-APS

Analog addressable photoelectric smoke detector.

#### Model SD505-AIS

Analog addressable ionization smoke detector.

#### Model SD505-AHS

Analog addressable heat sensor.

#### Model SD505-6AB

Six inch base designed for use with detector head models SD505-APS, SD505-AIS and SD505-AHS.

#### Model SD505-4AB

Four inch base designed for use with detector head models SD505-APS, SD505-AIS and SD505-AHS.

#### Model SD500-AIM

Dry Contact Input Module. Designed to mount on a 4 inch square electrical box. It features an indicator LED to show alarm status and a coverplate.

#### Model SD500-MIM

Mini Dry Contact Input Module. A miniature version of the addressable input module which is designed to be used with pull stations and other dry contact inputs where a smaller size is desired.

#### Model SD500-ARM

Relay Module. Features 2 Form C output relays, designed to mount on a 4 inch square electrical box. Provides indicator LED to show output status and comes with a coverplate.

#### Model SD505-ADH

Analog Duct Housing. Detects smoke in HVAC ducts. Used with either the SD505-APS photoelectric smoke detector or the SD505-AIS ionization smoke detector. Unit ships with an attached detector base. (Detector head and sampling tubes ordered separately.)

### S-BUS Accessories

The following items listed are devices that connected to the IntelliKnight's RS-485 Bus

#### 5860 Remote Fire Annunciator

The 5860 features the same 80 character backlit LCD display keypad and firefighter's keyswitch as the 5820. The system can be fully programmed and operated from any remote annunciator.

#### 5815 Signal Line Circuit Expander

The SLC expander is used to add more analog addressable devices to the IntelliKnight system. Each 5815 can support 127 devices and IntelliKnight can support two 5815s.

#### 5895 Intelligent Power Module

Adds 5 amps of power, 6 notification circuits and 2 Form C relay circuits to an IntelliKnight system.

#### 5880 LED/IO Module

Features 40 LED outputs, 8 Dry contact inputs and one piezo output.

#### 5865-3 and 5865-4 Remote LED Annunciator

Features 30 Programmable LEDs (15 red and 15 yellow) outputs and piezo sounder. The 5865-4 adds a silence and reset switch to the package.

#### 5824 Serial/Parallel Module

Has one parallel and one RS-232 serial port for connecting any standard IBM-compatible printer to the IntelliKnight system. With the 5824, you can print on-site reports of event history and detector status and log real-time events.

#### 5590 Download Software

User-friendly, Windows<sup>TM</sup> software for remote programming of the IntelliKnight panel using a PC.

#### 5595 Facility Management Software

Powerful end-user software allows viewing of detector status and event history via modem or direct connection.



**SILENT  
KNIGHT**

7550 Meridian Circle, Maple Grove, MN 55369-4927

800-446-6444 or in Minnesota 612-493-6435

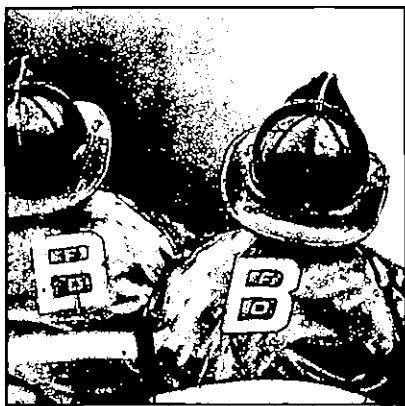
FAX: 612-493-6475

World Wide Web: <http://www.silentknight.com>

**MADE IN AMERICA**

FORM# 350761, Rev. 12/97

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## IntelliKnight Model 5820 Analog/ Addressable Fire Alarm Control System



**The IntelliKnight System is the  
smart way to make the most of fire  
alarm technology.**

IntelliKnight is the first fire alarm system to provide you with the revolutionary value and performance of analog, addressable sensing technology combined with exclusive, built-in digital communication, distributed intelligent power, a modular design and an expanded, easy to use interface. Powerful features such as detector sensitivity, day/night thresholds, drift compensation and maintenance alert are delivered in this powerful FACP from Silent Knight.

For more information about the IntelliKnight system, or to locate your nearest source, please call 1-800-446-6444, or in Minnesota, call 612-493-6435.

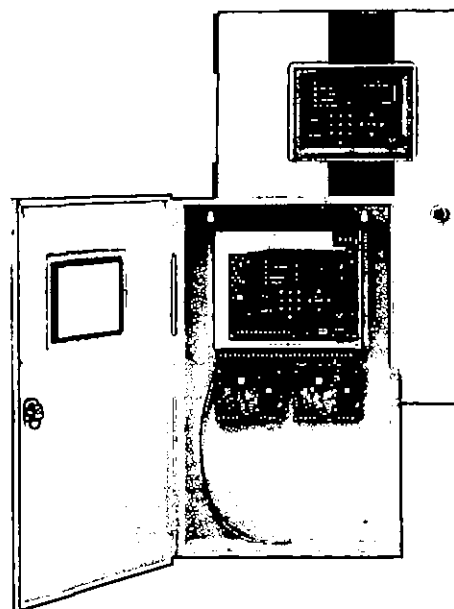
### Description

The IntelliKnight system uses analog data from the sensors installed on the signalling line circuits (SLC) to set sensitivity levels for each of the zones in the system. In addition, the Model 5820 uses the analog data to perform drift compensation and sensitivity checks on each of the sensors in the system.

The basic IntelliKnight 5820 system can be expanded by adding modules such as the Model 5860 Remote Annunciator, Model 5815 Signalling Line Circuit Expander, the Model 5824 Serial/Parallel Interface (for printing system reports), and the 5895 Intelligent Power Module. The Model 5820 also features a powerful built-in dual line fire communicator that allows for reporting of all system activity to a remote monitoring location.

### Features

- Up to 381 analog addressable points.
- Distributed, intelligent power.
- Sensor sensitivity settings.
- Day/Night sensitivity setting.
- Drift compensation.
- Flexput® I/O circuits.
- ANSI cadence pattern.
- Built-in annunciator with 80-character LCD display.
- RS-485 bus provides communication to system accessories.
- Built-in RS-232 interface for programming via PC.
- Built-in digital communicator.
- Form C trouble relay rated at 2.5 amps at 24 VDC.
- Two Form C programmable relays rated at 2.5 amps at 24 VDC.
- Uses standard wire—no shielded or twisted pair required.



**SILENT  
KNIGHT**

# IntelliKnight Model 5820 Analog/ Addressable Fire Alarm Control Panel



## System Application

The IntelliKnight Model 5820 control panel has one built-in Signalling Line Circuit (SLC) which supports 127 devices. Two additional loops can be added using the 5815 SLC expanders to increase overall capacity to 381 devices.

The Model 5820's SLC loops support multiple device types:

- Analog addressable photoelectric smoke detector
- Analog addressable ionization smoke detector
- Analog addressable heat sensor
- Analog addressable duct smoke detector
- Contact module
- Relay output module

The following advanced analog sensor capabilities are available using the IntelliKnight Model 5820:

- Sensitivity adjustment
- Automatic drift compensation
- Maintenance alert
- Built-in sensor test to comply with NFPA 72 calibration testing requirements
- Day/night sensitivity adjustment

The IntelliKnight 5820 features a 5 amp power supply and maximum battery charging capacity of 34 amp hours. An additional cabinet enclosure is required for batteries in excess of 17 amp hours.

Flexput® circuits on the Model 5820 control can be individually programmed to function as notification circuits or auxiliary power outputs.

The IntelliKnight system operates on non-twisted, unshielded cable when wired in compliance with standard wiring practices as called out in the National Electric Code 760 specifications for power-limited fire protective signalling cables. No special wiring is required.

The Model 5820 provides seven preset notification cadence patterns including ANSI 3.41 and four user programmable selections for fire alarm notification.

Two programmable general purpose Form C relay outputs are provided on the Model 5820 FACP.

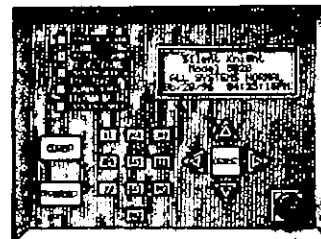
Additionally, the IntelliKnight system features a built-in walk test and auto-programming. Its innovative, dead-front cabinet design allows for flush or surface mounting. System maintenance is easy to perform.

## Built-In Digital Communicator

The IntelliKnight Model 5820 features a built-in UL listed digital communicator for remote reporting of system activity and system programming. The communicator has the ability to seize two telephone lines to report alarms and troubles to a monitoring facility. The communicator supervises two phone lines and will activate a trouble signal if a line failure is sustained for more than 45 seconds. Other communication features include: retry if communication fails, two phone number capability, download phone number capability and touchtone or rotary dialing. The communicator is compatible with SIA and Ademco Contact ID. The format is selectable by account number.

## User Interface

The IntelliKnight's built-in annunciator with 80 character LCD display and large easy-to-use tactile touchpad can be used for system operation, programming and maintenance. It has five LEDs for alarm, supervisory, system trouble, system silenced and system power. System operations include silencing alarms and troubles, resetting alarms and the display of alarm troubles and memory. The system's event history buffer stores 500 events for viewing from the built-in or remote annunciator. System operation can be initiated with a mechanical firefighter's key or a valid 4- to 7-digit operator's code.



## Programming

The IntelliKnight system offers several options to simplify and speed up programming. The JumpStart™ feature minimizes programming required to start a new system. The built-in keypad and the 5860 Remote Annunciator give on-site access to all programming. You can also program remotely using the 5590 Download Software, a user-friendly Windows™ application.

Counter Form  
PLEASE PRINT

PLUMBING

Contractor: Wandell  
Address: \_\_\_\_\_  
Phone #: \_\_\_\_\_  
Fax #: \_\_\_\_\_  
Federal Emp # or SSN: \_\_\_\_\_

Technical Data

| Fixtures                         | Quantity |
|----------------------------------|----------|
| Water Closets                    | _____    |
| Urinals/Bidets                   | _____    |
| Bath Tub                         | _____    |
| Lavatory                         | _____    |
| Shower                           | _____    |
| Floor Drain                      | _____    |
| Sink                             | _____    |
| Dishwasher                       | _____    |
| Drinking Fountain                | _____    |
| Washing Machine                  | _____    |
| Hose Bib                         | _____    |
| Gas Piping                       | _____    |
| Fuel Oil Piping                  | _____    |
| Water Heater                     | _____    |
| Steam Boiler                     | _____    |
| Hot Water Boiler                 | _____    |
| Sewer Pump                       | _____    |
| Interceptor/Separator            | _____    |
| Backflow Preventer               | _____    |
| Greasetrap                       | _____    |
| Water Cooled A/C or Refrig. Unit | _____    |
| Septic Tank Closure              | _____    |
| Sewer Service Connection         | _____    |
| Water Service Connection         | _____    |
| Active Solar System              | _____    |
| Auxiliary Meter                  | _____    |
| Sprinkler Heads                  | _____    |
| Sump Pump                        | _____    |
| Other:                           | _____    |

Estimated Cost of Plumbing Work \_\_\_\_\_

Signature: \_\_\_\_\_

Please Print Name: \_\_\_\_\_

CONTRACTOR'S SEAL

FIRE

Contractor: Wandell Security  
Address: PO Box 44  
Howell N.J. 07731  
Phone #: 732-363-0550  
Fax #: \_\_\_\_\_  
Federal Emp # or SSN: 22-3330961

Technical Data

Description of Work:

Heating Type: \_\_\_\_\_ Gas \_\_\_\_\_ Oil \_\_\_\_\_ Electric \_\_\_\_\_ Solar \_\_\_\_\_  
Heating System is \_\_\_\_\_ New \_\_\_\_\_ Existing \_\_\_\_\_  
Location of Furnace/Boiler: \_\_\_\_\_

Water Supply Source: \_\_\_\_\_  
Method of Valve Supervision: \_\_\_\_\_  
Local Alarm Supervision: \_\_\_\_\_  
Central Supervision: \_\_\_\_\_  
Proprietary Supervision: \_\_\_\_\_

Flammable Storage Tanks \_\_\_\_\_ capacity \_\_\_\_\_ fuel  
Combustible Storage Tanks \_\_\_\_\_ capacity \_\_\_\_\_ fuel  
LPG Storage Tanks \_\_\_\_\_ capacity \_\_\_\_\_ fuel

| Item                | Quantity |
|---------------------|----------|
| Wet Sprinkler Heads | _____    |
| Dry Sprinkler Heads | _____    |
| Total               | _____    |

Smoke Detectors \_\_\_\_\_  
Heat Detectors \_\_\_\_\_  
Total Replace 90 Bells with ADA Honey Bees

Stand Pipes \_\_\_\_\_  
Kitchen Hood Exhaust System \_\_\_\_\_

Pre-Engineered Systems: \_\_\_\_\_  
CO2 Suppression \_\_\_\_\_  
Haloh Suppression \_\_\_\_\_  
Foam Suppression \_\_\_\_\_  
Dry Chemical \_\_\_\_\_  
Wet Chemical \_\_\_\_\_

Gas/ Oil Fired Appliances: \_\_\_\_\_  
Number of gas/oil fired appliances \_\_\_\_\_

Furnace \_\_\_\_\_  
Gas/Wood Fireplace \_\_\_\_\_  
Gas Logs \_\_\_\_\_  
Wood Burning Stove \_\_\_\_\_  
Other: \_\_\_\_\_

Estimated Cost of Fire Work \$14000 -

Signature: Ed B Wandell

Print Name: Edward B Wandell

# Township of Brick

Counter Form  
(PLEASE PRINT)

Site Location: Brick Memorial High School  
 Block: 1211 Lot: 2  
 Owner's Name: Brick Board of Ed  
 Owner's Mailing Address: 101 Hendrickson Ave  
Brick, NJ 08723  
 Phone: ( 732 ) 262-2626

## BUILDING

Contractor: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone#: \_\_\_\_\_  
 Lis # \_\_\_\_\_  
 Federal Emp # or SSN \_\_\_\_\_

### Technical Data

Description of Work: \_\_\_\_\_

### Type of Work

☐ New Building ☐ Siding  
☐ Addition ☐ Fence  
☐ Alteration ☐ Pool  
☐ Roofing ☐ Demolition  
☐ Asbestos Abatement ☐ Sign \_\_\_\_\_ sq ft

### Building Characteristics

Use Group Present: \_\_\_\_\_ Proposed: \_\_\_\_\_  
 No of Stories: \_\_\_\_\_  
 Height of Structure: \_\_\_\_\_  
 Area of the largest floor: \_\_\_\_\_  
 Area of New Building: \_\_\_\_\_  
 Volume of Structure: \_\_\_\_\_  
 Total Land Disturbed: \_\_\_\_\_  
 Cost of Alteration: \_\_\_\_\_  
 Cost of New Building: \_\_\_\_\_

Total Cost of Building Work: \_\_\_\_\_

Signature: \_\_\_\_\_

Please Print Name: \_\_\_\_\_

## ELECTRICAL

Contractor: Wandell Security  
 Address: PO Box 44  
Howell NJ 07731  
 Phone#: 732-363-0550  
 Lis #: \_\_\_\_\_  
 Federal Emp # or SSN 22-3330961

### Technical Data

| Item                    | Quantity                     |
|-------------------------|------------------------------|
| Lighting Fixtures       | _____                        |
| Receptacles             | _____                        |
| Switches                | _____                        |
| Detectors               | _____                        |
| Light Poles             | _____                        |
| Motors w/ Fract. HP     | _____                        |
| Emergency & Exit Lights | _____                        |
| Communication Points    | _____                        |
| Alarm Devices/FAC Panel | <u>Replace Control Panel</u> |
| Total                   | _____                        |

Pool \_\_\_\_\_  
 Spa/Hot Tub/Storable Pool \_\_\_\_\_  
 Electric Range \_\_\_\_\_ KW  
 Oven/Surface Unit \_\_\_\_\_ KW  
 Electric Water Heater \_\_\_\_\_ KW  
 Electric Dryer \_\_\_\_\_ KW  
 Dishwasher \_\_\_\_\_ KW  
 Garbage Disposal \_\_\_\_\_ HP  
 A/C Unit - Central Air \_\_\_\_\_ KW  
 Space Heater/Air Handler \_\_\_\_\_ KW  
 Baseboard Heating \_\_\_\_\_ KW  
 Motors 1+ HP \_\_\_\_\_  
 Transformer/Generator \_\_\_\_\_ KW  
 Light Stander \_\_\_\_\_ AMP  
 Service \_\_\_\_\_ AMP  
 Subpanel \_\_\_\_\_ AMP  
 Motor Control Center \_\_\_\_\_ AMP  
 Sign/Outline Light \_\_\_\_\_ KW  
 Furnace \_\_\_\_\_  
 Steam Boiler \_\_\_\_\_  
 Other: \_\_\_\_\_

Estimated Cost of Electrical Work: \$ 3500-

Signature: Edward B. Wandell

Please Print Name Edward B. Wandell

CONTRACTOR'S SEAL