

# Request for Quote

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
 ONE CAPITOL HILL  
 PROVIDENCE RI 02908

**CREATION DATE :** 29-JAN-13  
**BID NUMBER:** 7459289  
**TITLE:** DESIGN AND INSTALL FIRE ALARM SYSTEM AT THREE (3) GROUP HOMES IN BHDDH COMMUNITY  
  
**BLANKET START :** 01-MAY-13  
**BLANKET END :** 30-SEP-14  
**BID CLOSING DATE AND TIME:**15-MAR-2013 02:00:00

**BUYER:** McGurn, Cheryl A  
**PHONE #:** N/A

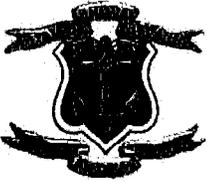
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 BHDDH - FOR DESTINATION  
 SEE BELOW  
 SEE BELOW, RI N/A  
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Requisition Number: 1299612

Line	Description	Quantity	Unit	Unit Price	Total
1	<p>THERE WILL BE THREE (3) PRE-BID CONFERENCES AT THREE (3) DIFFERENT LOCATIONS ALL IN ONE (1) DAY.</p> <p>FEBRUARY 25, 2013 AT 9:00 AM</p> <p>665 DYER AVE, CRANSTON, RI</p> <p>UPON COMPLETION OF THE ABOVE CONFERENCE WE WILL MOVE TO:</p> <p>60 STAMP FARM RD, CRANSTON, RI</p> <p>UPON COMPLETION OF THE ABOVE CONFERENCE, WE WILL MOVE TO:</p> <p>181 CUMBERLAND ST, WOONSOCKET, RI</p> <p>BIDDER IS REQUIRED TO PROVIDE A BID SURETY IN THE FORM OF A BID BOND, OR A CERTIFIED CHECK PAYABLE TO THE STATE OF RHODE ISLAND, IN THE AMOUNT OF A SUM NOT LESS THAN FIVE PERCENT (5%) OF THE BID PRICE. BID SURETY MUST BE ATTACHED TO THE BID FORM. THE SUCCESSFUL BIDDER WILL ALSO BE REQUIRED TO FURNISH PERFORMANCE AND LABOR AND PAYMENT BONDS AT TIME OF TENTATIVE CONTRACT AWARD.</p> <p>QUESTIONS CONCERNING THIS SOLICITATION MUST BE RECEIVED BY THE DIVISION OF PURCHASES AT:          GROUPHOMES@PURCHASING.RI.GOV NO LATER THAN MARCH 5, 2013 @ 12:00 (EST). QUESTIONS SHOULD BE SUBMITTED IN A MICROSOFT WORD ATTACHMENT. PLEASE REFERENCE THE RFQ# ON ALL CORRESPONDENCE. QUESTIONS RECEIVED IF ANY, WILL BE POSTED ON THE INTERNET AS AN ADDENDUM TO THIS SOLICITATION. IT IS THE RESPONSIBILITY OF ALL INTERESTED PARTIES TO DOWNLOAD THIS INFORMATION.</p> <p>DESIGN AND INSTALL A COMPLETELY FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH THE</p>	1.00	Each		

It is the Vendor's responsibility to check and download any and all addenda from the RIVIP. This offer may not be considered unless a signed RIVIP generated Bidder Certification Cover Form is attached and the Unit Price column is completed. The signed Certification Cover Form must be attached to the front of the offer



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 BHDDH - FOR DESTINATION  
 SEE BELOW  
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Requisition Number: 1299612

Line	Description	Quantity	Unit	Unit Price	Total
	ATTACHED SPECS THAT MEETS ALL APPLICABLE STATE & LOCAL CODES & REGULATIONS AT : 665 DYER AVE, CRANSTON, RI				
2	DESIGN AND INSTALL A COMPLETELY FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH THE ATTACHED SPECS THAT MEETS ALL APPLICABLE STATE & LOCAL CODES & REGULATIONS AT : 60 STAMP FARM RD, CRANSTON, RI	1.00	Each		
3	DESIGN AND INSTALL A COMPLETELY FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH THE ATTACHED SPECS THAT MEETS ALL APPLICABLE STATE & LOCAL CODES & REGULATIONS AT : 181 CUMBERLAND ST, WOONSOCKET, RI	1.00	Each		

Delivery: \_\_\_\_\_

Terms of Payment: \_\_\_\_\_

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**REQUEST FOR QUOTE 7459289**

**BID STANDARD TERMS AND CONDITIONS**

**TERMS AND CONDITIONS FOR THIS BID**

**RIVIP INFO – BID SUBMISSION REQUIREMENTS**

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**START DATE**

STARTING DATE \_\_\_\_\_ NO. OF WORKING DAYS REQUIRED FOR COMPLETION  
\_\_\_\_\_

**SURETY REQUIREMENTS**

BIDDER IS REQUIRED TO PROVIDE A BID SURETY IN THE FORM OF A BID BOND, OR A CERTIFIED CHECK PAYABLE TO THE STATE OF RHODE ISLAND, IN THE AMOUNT OF A SUM NOT LESS THAN FIVE PERCENT (5%) OF THE BID PRICE. BID SURETY MUST BE ATTACHED TO THE BID FORM. THE SUCCESSFUL BIDDER WILL ALSO BE REQUIRED TO FURNISH PERFORMANCE AND LABOR AND PAYMENT BONDS AT TIME OF TENTATIVE CONTRACT AWARD.

**WAGE REQUIREMENTS**

BIDDERS ARE ADVISED THAT ALL PROVISIONS OF TITLE 37 CHAPTER 13 OF THE GENERAL LAWS OF RHODE ISLAND APPLY TO THE WORK COVERED BY THIS REQUEST, AND THAT PAYMENT OF THE GENERAL PREVAILING RATE OF PER DIEM WAGES AND THE GENERAL PREVAILING RATE FOR REGULAR, OVERTIME, AND OTHER WORKING CONDITIONS EXISTING IN THE LOCALITY FOR EACH CRAFT, MECHANIC, TEAMSTER, OR TYPE OF WORKMAN NEEDED TO EXECUTE THIS WORK IS A REQUIREMENT FOR BOTH CONTRACTORS AND SUBCONTRACTORS. THE PREVAILING WAGE TABLE MAY BE OBTAINED AT THE RI DIVISION OF PURCHASES HOME PAGE BY INTERNET at [www.purchasing.state.ri.us](http://www.purchasing.state.ri.us). SELECT "INFORMATION" AND THEN SELECT "PREVAILING WAGE TABLE". THE STATE OF RHODE ISLAND USES THE GENERAL DECISION NUMBER RI20100001. PRINTING THE ENTIRE DOCUMENT AVERAGES APPROXIMATELY ONE MINUTE PER PAGE - YOU MAY WANT TO PRINT ONLY THE PAGES APPLICABLE TO YOUR BID. BIDDERS NOTE: IN THE EVENT THIS BID SPECIFIES PRICE OFFERS ON A TIME-AND-MATERIALS BASIS, i.e., AN HOURLY RATE, ANY OR ALL BIDS SUBMITTED IN AN AMOUNT LESS THAN THE PREVAILING RATE IN EFFECT FOR THE WORK COVERED BY THIS REQUEST AS OF THE DATE OF BID ISSUANCE SHALL BE REJECTED BY THE DIVISION OF PURCHASES.

**INSPECTION REQUIREMENTS**

BIDDERS ARE RESPONSIBLE FOR INSPECTION OF EQUIPMENT AND/OR LOCATION, TAKING MEASUREMENTS\* WHEN REQUIRED, AND MAKING THEMSELVES AWARE OF THE TOTAL REQUIREMENT BEFORE SUBMITTING A BID. \*MEASUREMENTS PROVIDED WITH ANY BID ARE FOR REFERENCE PURPOSES AND ARE NOT GUARANTEED TO BE COMPLETELY ACCURATE.

## **INSURANCE REQUIREMENTS**

AN INSURANCE CERTIFICATE IN COMPLIANCE WITH PROVISIONS OF ITEM 31 (INSURANCE) OF THE GENERAL CONDITIONS OF PURCHASE IS REQUIRED FOR COMPREHENSIVE GENERAL LIABILITY, AUTOMOBILE LIABILITY, AND WORKERS' COMPENSATION AND MUST BE SUBMITTED BY THE SUCCESSFUL BIDDER(S) TO THE DIVISION OF PURCHASES PRIOR TO AWARD. THE INSURANCE CERTIFICATE MUST NAME THE STATE OF RHODE ISLAND AS CERTIFICATE HOLDER AND AS AN ADDITIONAL INSURED. FAILURE TO COMPLY WITH THESE PROVISIONS MAY RESULT IN REJECTION OF THE OFFEROR'S BID. ANNUAL RENEWAL CERTIFICATES MUST BE SUBMITTED TO THE AGENCY IDENTIFIED ON THE PURCHASE ORDER. FAILURE TO DO SO MAY BE GROUNDS FOR CANCELLATION OF CONTRACT.

NOTE: IF THIS BID COVERS CONSTRUCTION, SCHOOL BUSING, HAZARDOUS WASTE, OR VESSEL OPERATION, APPLICABLE COVERAGES FROM THE FOLLOWING LIST MUST ALSO BE SUBMITTED TO THE DIVISION OF PURCHASES PRIOR TO AWARD: \* PROFESSIONAL LIABILITY INSURANCE (AKA ERRORS & OMISSIONS) - \$1 MILLION OR 5% OF ESTIMATED PROJECT COST, WHICHEVER IS GREATER. \* BUILDER'S RISK INSURANCE - COVERAGE EQUAL TO FACE AMOUNT OF CONTRACT FOR CONSTRUCTION. \* SCHOOL BUSING - AUTO LIABILITY COVERAGE IN THE AMOUNT OF \$5 MILLION. \* ENVIRONMENTAL IMPAIRMENT (AKA POLLUTION CONTROL) - \$1 MILLION OR 5% OF FACE AMOUNT OF CONTRACT, WHICHEVER IS GREATER. \* VESSEL OPERATION - (MARINE OR AIRCRAFT) - PROTECTION & INDEMNITY COVERAGE REQUIRED IN THE AMOUNT OF \$1 MILLION.

## **LICENSE REQUIREMENTS**

VENDOR (OWNER OF COMPANY) IS RESPONSIBLE TO COMPLY WITH ALL LICENSING OR STATE PERMITS REQUIRED FOR THIS TYPE OF SERVICE. A COPY OF LICENSE/PERMIT SHOULD BE SUBMITTED WITH THIS BID. IN ADDITION TO THESE LICENSE REQUIREMENTS, BIDDER, BY SUBMISSION OF THIS BID, CERTIFIES THAT ANY/ALL WORK RELATED TO THIS BID, AND ANY SUBSEQUENT AWARD WHICH REQUIRES A RHODE ISLAND LICENSE(S), SHALL BE PERFORMED BY AN INDIVIDUAL(S) HOLDING A VALID RHODE ISLAND LICENSE.



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Administration  
DIVISION OF PURCHASES  
One Capitol Hill  
Providence, RI 02908-5855

Tel: (401) 574-8100  
Fax: (401) 574-8387  
Website: [www.purchasing.ri.gov](http://www.purchasing.ri.gov)

State of Rhode Island  
Department of Administration / Division of Purchases

**BID #7459289**

**TITLED:**

**Furnish and Install Fire Alarm System at Three (3) Group Homes for Behavioral Healthcare, Developmental Disabilities and Hospitals (BHDDH)**

**1. LICENSING REQUIREMENTS:**

Bidders must be aware of all conditions referenced in R.I. Gen. Laws, Section 5-6-2 entitled "Work for Which License required".

<http://www.rilin.state.ri.us/Statutes/TITLE5/5-6/5-6-2.HTM>

Be advised that bidders **MUST** submit a current DLT license number and a copy of the required license certificate with the bid proposal.

COMPANY/ NAME: \_\_\_\_\_

LICENSE NUMBER: \_\_\_\_\_

Any person submitting a bid proposal for the above referenced Fire Alarm System installation solicitation must hold a current Rhode Island certificate A - "Electrical Contractor's License" or certificate AF- "Fire Alarm, Contractor's License" issued by the Department of Labor and Training. After contract award vendor(s) must pay prevailing wages set forth by the Department of Labor and Training at the rate established for licensed electricians.

Vendor (Owner of Company) is responsible to comply with all licensing requirements or state permits required for the type of fire alarm systems to described in the solicitation. **A copy of a current license/permit must be submitted with this bid.** In addition to these license requirements bidder, by submission of bid, certifies that any/all work related to this bid, and any subsequent award which requires a Rhode Island License(s), shall be performed by an individual(s) holding a valid Rhode Island License.

**2. MANDATORY PRE-BID:**

Bidders are responsible for inspection of equipment and/or locations by taking measurements at the Mandatory Pre-bid conference and making themselves aware of the total requirement before submitting bid. **This will be the only opportunity to visit the site and gather all required information.**

**3. METHOD OF AWARD:**

The State of Rhode Island Division of Purchases reserves the right to make one award to the total low responsive/responsible bidder for all locations listed in the solicitation. Award will be made only to vendor(s) complying with all DLT licensing requirements listed above.

**4. ACKNOWLEDGEMENT OF ADDENDUM:**

**Important:** Attach this completed and signed addendum along with a copy of the required licenses to your bid proposal when your bid is submitted.

Name:

Date:

\_\_\_\_\_

\_\_\_\_\_

I confirm receipt and understanding of Addendum #1 and have incorporated its provisions in my bid package.

## **BHDDH Community Facility Fire Alarm Installation / Upgrade Specifications**

**CONTACT:** Steve Denoyelle, Deputy Chief, Facilities Management  
Department of Behavioral Healthcare, Developmental Disabilities and  
Hospitals (BHDDH)  
14 Howard Avenue  
Cranston, RI 02920  
462-3047 – [steve.denoyelle@bhddh.ri.gov](mailto:steve.denoyelle@bhddh.ri.gov)

**Scope of Work:** Design and Installation of a Code Compliant Fire Alarm System for Residential Programs and Commercial Community Facilities

**Submittals to:** Purchases, Department of Administration  
One Capitol Hill, 2nd Floor  
Providence, RI 02903

**To be completed by:** Work shall commence within two weeks of executed agreement and shall be completed (to include final inspection and approval) within 6-8 weeks after the executed agreement is finalized.

### **1.0 SCOPE OF WORK DEFINED**

- A. The licensed electrician shall be required to design and install a code compliant fire alarm system in facilities licensed by BHDDH based upon a physical inspection of the premises. This shall apply to new installations and upgrades to existing systems.
- B. The design shall be placed into a media format suitable for usage for BHDDH and the AHJ. Any plans submitted electronically shall be accompanied by paper drawings.
- C. All upgrades shall take into account that the devices may be omitted at a later date with the installation of sprinkler system. The intent is to not eliminate the device or coverage but the State of Rhode Island reserves the right to appeal to the Rhode Island Fire Code - Board of Appeal and Review for possible time extensions in lieu of sprinkler coverage.
- D. The licensed electrician shall also provide the required project documentation to BHDDH and the AHJ through its various stages until the project is complete. Once the project is complete the licensed electrician will supply the documentation required to accept the system and supply information on how to maintain it.
- E. All costs associated with this project, such as printing, permits, applications, etc. will be the sole responsibility of the installer. There will be no reimbursements allowed within the scope of this contract.

### **2.0 RATIONALE**

- A. The responsibility of the installing electrician is to ensure that the newly proposed fire alarm design is monitored through all the phases incorporated with a fire alarm installation. The new fire alarm system will best serve the public and or the building occupants for years to come and also to eliminate the possibilities of adders and further costs related to the proposed project.

### **3.0 ROLES AND RESPONSIBILITIES-PRE-BID QUALIFICATIONS**

- A. Any person submitting a bid proposal for a fire alarm installation / upgrade solicitation ***MUST*** hold a current Rhode Island certificate A – “Electrical Contractor’s License” or certificate AF – “Fire Alarm – Contractors License” issued by the Department of Labor and Training. After contract award, the vendor must pay prevailing wages set forth by the Department of Labor and Training at the rate established for licensed electricians.
- B. Vendor (Owner of Company) is responsible to comply with all licensing requirements or State permits required for the type of fire alarm described in the solicitation. **A COPY OF A CURRENT LICENSE/PERMIT MUST BE SUBMITTED WITH THIS BID.** In addition to these license requirements, bidders, by submission of bid, certifies that any/all work related to this bid and any subsequent award which requires a Rhode Island License(s) shall be performed by an individual(s) holding a valid Rhode Island License.
- C. Any licensed electrician wishing to bid shall have 5-7 years experience in fire alarm design and have previous history working on projects that have had favorable final completion.
- D. The licensed electrician wishing to bid shall produce a minimum of three references from previous similar projects. The names and contact information shall be listed on the bid proposal document.

**THE BID SHALL BE AWARDED TO THE LOWEST EVALUATED BIDDER**

***\*\*\*A REVIEW OF ALL PERTINENT INFORMATION LISTED ABOVE  
SHALL DETERMINE THE AWARDING OF THE BID. \*\*\*\****

### **4.0 GENERAL REQUIREMENTS FROM THE BIDDER (after bid is awarded)**

- A. The selected licensed electrician shall supply four (4) copies of the detailed drawings required for the proposed project to the Rhode Island State Fire Marshall (RISFM) for plan review. AutoCAD formatted drawings are recommended. The drawings shall be utilized as a reference by the RISFM for the requirements for the new/existing fire alarm system. The detailed drawing shall show a proposed location of all the system component(s) new and existing relative to the building floor plan(s). This drawing shall be to scale and accurate to alleviate any questions and/or concerns by the AHJ. The licensed electrician is responsible for existing conditions, surge protection and confirmation of the required quantities and final placement of the new devices and, if required, to provide suitable options for the location of the same.
- B. The licensed electrician shall also provide a legend specific to all the devices showing all specifics and functionalities of all pertinent components.
- C. The drawings shall also list candela and decibel values specific to each and every notification appliance as well as ensure proper spacing and placement.

### **5.0 FIRE DETECTION AND ALARM SYSTEM**

- A. This section of the specification includes the furnishing, installation, connection and testing of the fire alarm equipment required forming a complete, operative, coordinated system.

- B. It shall include, but not be limited to, alarm initiating devices, alarm notification appliances, Fire Alarm Control Panel (FACP), auxiliary control devices, enunciators, and wiring as shown on the drawings and specified herein. It shall also include LOCAL smoke detectors in all bedrooms. All local smoke and carbon monoxide detectors are to be interconnected. The FACP will have sufficient capacity and modules to monitor a fire sprinkler system with separate zones for flow monitoring and tamper monitoring as would be required for a sprinkler system designed for this occupancy. If there is not currently a fire sprinkler system with in the facility, the fire alarm vendor will assume one will be installed and provide all required monitoring modules and zones.
- C. The fire alarm system shall comply with requirements of NFPA Standard 72 (2002 Edition) for Protected Premises Signaling Systems except as modified and supplemented by this specification. The system shall be electrically supervised and monitor the integrity of all conductors.
- D. The fire alarm system shall be manufactured by an ISO 9001 certified company and meet the requirements of BS EN9001: ANSI/ASQC Q90011994.
- E. The FACP and peripheral devices shall be manufactured 100% by a single U.S. manufacturer (or division thereof).
- F. The system and its components shall be Underwriters Laboratories, Inc. listed under the appropriate UL testing standard as listed herein for fire alarm applications and the installation shall be in compliance with the UL listing.
- G. The installing company shall employ NICET (minimum Level II Fire Alarm Technology) technicians on site to guide the final checkout and to ensure the systems integrity.
- H. The Fire Alarm system shall not be proprietary and must be serviceable by a factory trained authorized representative of the manufacturer.

#### **6.0 SYSTEM OPERATION (*Basic Performance*)**

- A. Alarm, trouble and supervisory signals from all intelligent reporting devices shall be encoded on NFPA Style 4 (Class B) Signaling Line Circuits (SLC).
- B. Initiation Device Circuits (IDC) shall be wired Class A (NFPA Style D) as part of an addressable device connected by the SLC Circuit.
- C. Notification Appliance Circuits (NAC) shall be wired Class A (NFPA Style Z) as part of an addressable device connected by the SLC Circuit.
- D. On Style 6 or 7 (Class A) configurations a single ground fault or open circuit on the system Signaling Line Circuit shall not cause system malfunction, loss of operating power or the ability to report an alarm.
- E. Alarm signals arriving at the FACP shall not be lost following a primary power failure (or outage) until the alarm signal is processed and recorded.

- F. When a fire alarm condition is detected and reported by one of the system initiating devices, the following functions shall immediately occur:
1. The system alarm LED on the system display shall flash.
  2. A local electric signal in the control panel shall sound.
  3. A backlit LCD display shall indicate all information associated with the fire alarm condition, including the type of alarm point and its location within the protected premises.
  4. A signal shall be transmitted to the city master box (if supplied) to notify the city fire department.
  5. Printing and history storage equipment shall log the information associated each new fire alarm control panel condition, along with time and date of occurrence.
  6. All system output programs assigned via control by event Interlock programming to be activated by the particular point in alarm shall be executed, and the associated system outputs (notification appliances and/or relays) shall be activated.

## **7.0 SUBMITTALS**

- A. Provide data sheet(s) and compatibility documentation to BHDDH and AHJ prior to the installation.
- B. Provide BHDDH and Rhode Island State Fire Marshals Office a battery calculations sheet and detailed riser and as well as all other related materials required for a successful plan and review.
- C. All upgrades shall take into account that the devices may be omitted at a later date with the installation of sprinkler system. The intent is to not eliminate the device or coverage but the State of Rhode Island reserves the right to appeal to the Rhode Fire Code Board of appeal and review for possible time extensions in lieu of sprinkler coverage.
- D. All references to manufacturer's model numbers and other pertinent information herein is intended to establish minimum standards of performance, function and quality. Equivalent compatible UL listed equipment from other manufacturers may be substituted for the specified equipment as long as the minimum standards are met.
- E. For equipment other than that specified, the contractor shall supply proof that such substitute equipment equals or exceeds the features, functions, performance, and quality of the specified equipment.
- F. Shop Drawings:
1. Sufficient information, clearly presented, shall be included to determine compliance with drawings and specifications.
  2. Include manufacturer's name(s), model numbers, ratings, power requirements, equipment layout, device arrangement, complete wiring point to point diagrams and conduit layouts.

3. Show enunciator layout, configurations, and terminations.

#### G. Manuals:

1. Submit simultaneously with the shop drawings, complete operating and maintenance manuals listing the manufacturer's name(s), including technical data sheets.
2. Wiring diagrams shall indicate internal wiring for each device and the interconnections between the items of equipment.
3. Provide a clear and concise description of operation that gives, in detail, the information required to properly operate the equipment and system.

#### H. Software Modifications

1. Provide the services of a factory trained and authorized technician to perform all system software modifications, upgrades or changes. Response time of the technician to the site shall not exceed 4 hours.
2. Provide all hardware, software, programming tools and documentation necessary to modify the fire alarm system on site. Modification includes addition and deletion of devices, circuits, zones and changes to system operation and custom label changes for devices or zones. The system structure and software shall place no limit on the type or extent of software modifications onsite.

#### I. Certifications:

1. Together with the shop drawing submittal, submit a certification from the major equipment manufacturer indicating that the proposed supervisor of the installation and the proposed performer of contract maintenance is an authorized representative of the major equipment manufacturer. Include names and addresses in the certification.

### **8.0 GUARANTY**

- A. All work performed and all material and equipment furnished under this contract shall be free from defects and shall remain so for a period of at least one (1) year from the date of acceptance. The full cost of maintenance, labor and materials required to correct any defect during this one (1) year period shall be included in the submittal bid.

### **9.0 CONSTRUCTION ADMINISTRATION AND OVERSIGHT**

- A. The licensed electrician shall recommend a type of fire alarm system specific to its application that takes in consideration in both the short term and long term goals of the building. The fire alarm type and specification shall be submitted for approval by the Rhode Island State Fire Marshal's Office and BHDDH.

- B. At the time of the bid, the licensed electrician shall document all exceptions in writing and provide a detailed narrative to BHDDH, and State of Rhode Island Purchasing Agency. All exceptions and or variances from the original specification as well as any and all substitutions shall also be forwarded to BHDDH and State of Rhode Island Purchasing Agency for final approval. Any such exceptions, variances or substitutions, which were not listed and/or approved by BHDDH and State of Rhode Island Purchasing Agency at the time of the bid shall not be approved or considered.
- C. The work shall include all labor, materials, services, tools, transportation and temporary construction necessary to remove any portion of the existing building(s) fire alarm system in a manner compliant to current codes and standards. The removal of any existing component shall be clearly defined in the designer's specifications and also listed on the drawings, along with justification for such removal. The removed devices shall be returned in good condition to the owner. All materials used and/or parts installed shall be new and in good condition. The invoices for all materials and/or parts shall be provided in the close-out documentation to BHDDH.
- D. The work shall include all labor, materials, services, tools, transportation and temporary construction necessary to fabricate, install, program and provide final testing (system has to be fully functional) for a UL listed fire alarm system compliant to the current R.I. Life Safety Code.
- E. The work shall include any and all fees and activities required to secure approvals for state and/or local permits. The Fire Alarm installer needs to be aware of all processes to acquire permits and fees attributed to the project. The BHDDH and State of Rhode Island Purchasing Agency shall not be liable to any fines, fees or adders that are in result to errors and omissions found by the AHJ. The systems design shall meet and/or exceed all current rules and regulations. It is the licensed electrician's responsibility to design a code compliant system as prescribed in current state and federal guidelines. The system shall comply with the current Rhode Island Life Safety Code, the American with Disabilities Act, as well as any and all local ordinances as adopted by the local municipality.
1. All systems shall be installed in a manner that limits potential harm to participants and/or staff.
  2. All installations shall avoid "surface mount" whenever possible.
  3. All tools and materials shall be secured to ensure a safe environment for participants and staff.
- F. The work includes performing field quality assurances that the system installed is being installed is to specifications and acceptable to current codes (wiring and methodology). The Fire Alarm installer shall provide status reports every thirty days and or every benchmark/milestone to the Rhode Island State Fire Marshal's Office and BHDDH.
- G. The licensed electrician shall evaluate and provide recommendations on the request of payment. The request for payment shall correlate with the projects current status.
- H. The work includes documenting and submitting the results of integrity and functional testing. This documentations is to include battery calculations, voltage drop etc.

- I. The work includes performing a scheduled pre-acceptance test prior to scheduling the final acceptance test with the AHJ. The vendor shall provide adequate documentation to the AHJ stating that the system is ready for a final acceptance test. This documentation is also to include the mandatory battery stand-by functionality test.
- J. The Fire Alarm installer shall conduct the final acceptance test with the AHJ. All devices shall be tested as recommended by the manufacturer. Smoke detectors shall be tested with smoke.
- K. The fire alarm installation/demolishing aspect shall address all fire/smoke penetrations as result to the work preformed by the contractor. The penetrations shall meet current rules and regulations.
- L. All work shall be completed in a clean and tidy manor; Contractor is responsible for all pertinent fees and permits associated with the work to be performed prior to any and all work is to be performed. All work performed shall satisfy all local and state rules and regulations. All work is to be tested and inspected by the State Fire Marshals Office and or their designee. Additionally, all work is to be completed to the satisfaction of BHDDH.

#### **10.0 BASIC PERFORMANCE:**

- A. Alarm, trouble and supervisory signals from all intelligent reporting devices shall be encoded on NFPA Style 4 (Class B) Signaling Line Circuits (SLC).
- B. Initiation Device Circuits (IDC) shall be wired Class A (NFPA Style D) as part of an addressable device connected by the SLC Circuit.
- C. Notification Appliance Circuits (NAC) shall be wired Class A (NFPA Style Z) as part of an addressable device connected by the SLC Circuit.
- D. On Style 6 or 7 (Class A) configurations a single ground fault or open circuit on the system Signaling Line Circuit shall not cause system malfunction, loss of operating power or the ability to report an alarm.
- E. Alarm signals arriving at the FACP shall not be lost following a primary power failure (or outage) until the alarm signal is processed and recorded.

#### **11.0 CLOSES-OUT DOCUMENTS (REQUIRED)**

- A. The work includes submitting as-built plans and all closeout documentation to the Rhode Island State Fire Marshal's Office for final approval. The Fire Alarm installer shall be required to keep all documentation on file for a period of seven (7) years. This documentation shall be reviewed prior to the owner demonstration and training.
- B. Project manual (technical specifications etc.)
- C. Product and equipment data sheets as supplied by vendor

- D. Detailed fire alarm riser.
- Type of wire (color).
  - Type of enclosure and connection.
  - Isolation as per current rules and regulations also to include all power supplies and master box locations.
  - Point-to-points on all pertinent fire alarm equipment in the event that the fire alarm components need to be replaced in the course of service to the facility.
- E. The “demo” work as well as patch and repair shall be listed as a duty and responsibility in the licensed electrician’s initial design and shall be included and forwarded to BHDDH for approval.
- F. The fire alarm installer shall be responsible for providing all pertinent operation manuals and two copies of the final programming on a compact disk (CD) one to be kept on the premises and one to be kept by BHDDH. The fire alarm installer shall provide in writing a detailed required maintenance schedule and the frequency the maintenance has to be preformed in accordance to Manufactures specifications. This detailed narrative shall include all equipment necessary to maintain and operate the fire alarm system (remote power supplies isolation modules etc.)

### **13.0 PRIOR TO FINAL PAYMENT**

- A. Prior to final payment the vendor shall supply BHDDH and State of Rhode Island Purchasing Agency all appropriate paperwork i.e.: record of completion (i.e.- NFPA 72), certificates of satisfactory completion documents and/or approvals from all aforementioned parties, equipment warranties, copies of all permits, signed release of subcontractor, along with request for payment. The licensed electrician shall also:
1. Verify the demo work as well as patch and repair shall be predetermined at the initial design and shall be included and forwarded to the BHDDH for final approval.
  2. Ensure all work shall satisfy current code requirements in regards to abandoning old work (wiring, conduit old work boxes, and chases etc.).
  3. Ensure all work shall be completed in a clean and tidy manner and in the event that there is demolishing and or removal of old existing wiring and or appliances, that the area affected is returned to its pre-project conditions.
  4. Contractor is responsible for all pertinent fees and permits associated with the work to be performed prior to any work to be performed. All work performed shall satisfy all local and state rules and regulations. All work is to be tested and inspected by the Office of the Rhode Island State Fire Marshal. Additionally, all work is to be completed to the satisfaction of BHDDH.
  5. All work is to be tested and inspected by the AHJ and BHDDH. Additionally, all work is to be completed to the satisfaction of the State of Rhode Island Purchasing Agency.