

BID PACKAGE
for
Corrigan Fire Alarm
BI-DC-517

STATE OF CONNECTICUT



Dannel Malloy, Governor

Department of Correction

James E. Dzurenda, Commissioner

Facilities Management and Engineering Unit
24 Wolcott Hill Road
Wethersfield, CT 06109
860-692-7565

Cheryl Cepelak,
Deputy Commissioner

Stephen Link,
Director

Kathy Woodward,
Associate Fiscal Administrative Officer

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APPENDIX:

Minimum Rates and Classifications for Building Construction

Connecticut General Statutes Section 31-53b

Informational Bulletin- The 10 Hour OSHA Construction Safety and Health Course

Connecticut General Statute 31-55a

Informational Bulletin- Occupational Classifications

Contractors Wage Certification Form

Pre-Bid Representative Form

DOC Employment Information Form

Gift and Campaign Contribution Certification

Bid Form Check List

Standard Bid Proposal Form (STO-93)

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1. INSTRUCTIONS TO BIDDERS

IB 1.01 General

1. These instructions to bidders are for the complete project known as: **Corrigan Fire Alarm, BI-DC-517**, (the “Project”). Bids for the Project shall be bid in strict accordance and compliance with this Bid Package and Technical Specifications as prepared and promulgated by the Connecticut Department of Correction (“DOC”).
2. The bid must include all costs associated with the Project, including but not limited to the costs of supervision, labor, equipment, services and materials required to complete the Project pursuant to the Project Specifications.
3. The proposed dollar amount of each bid shall be deemed to include all costs and expenses required to complete the Project, as specified per Project Specifications, ready for use. Risks of all such costs and expenses shall be assumed by the successful bidder.
4. The Project Specifications call for finished and completed work. The Project shall have been tested, inspected and shall be ready for operation before the Project is considered complete. Any work of any kind necessary to make the Project complete and ready for operation shall be provided by the successful bidder (hereinafter “Contractor”) without additional compensation. Products, parts, material and/or other items required for installation, operation and completion of the Project shall be provided by the Contractor in a manner consistent with the Project Specifications.
5. It shall be recognized and accepted that during construction in a correctional facility, there may be delays, closures, or other interference due to various security issues and facility lock downs. This factor shall be considered and reflected in the submitted bid proposal. The DOC shall not authorize additional compensation for such delays, closures, or other interference.
6. The DOC shall assign a department representative of the DOC’s choosing who shall work with the Contractor as liaison between the Contractor and the DOC administration.

IB 1.02 Bid Form and Acceptance

1. All sealed bids must be ***received*** by the date and time specified at the office of Kathy Woodward, Associate Fiscal Administrative Officer (AFAO) at the following address:
Department of Correction
Fiscal Services / 2nd Floor
24 Wolcott Hill Road
Wethersfield, CT 06109
Attn: Kathy Woodward

It is recommended that you call prior to the bid opening to verify that your bid has been

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received.

2. Bid envelopes must clearly indicate the bid number as well as the date and time of bid opening.
3. Enclosed with this specification is a Standard Bid Proposal Form (STO-93) on which bids shall be submitted.
4. The project shall be bid on the enclosed Standard Bid Proposal Form (STO-93) as follows:
 - a. Base Bid - complete as described.
 - b. Supplemental Bid (if any), completed as described.
(Supplemental Bids may be accepted or rejected by the DOC. If accepted, the total bid amount shall be determined by the total Base Bid amount and the Supplemental Bid.
 - c. All STO-93 Proposal Forms shall be signed by a person duly authorized to sign bids on behalf of the bidder. Unsigned bids will be rejected.
5. If you do not wish to submit a bid, you must return the STO-93 Form, indicating "No Bid Submitted."
6. The DOC reserves the right to accept or reject bid within sixty (60) calendar days of the bid opening date. All proposed bid prices must be fixed for this sixty (60) day period.
7. The Contract will be awarded to the lowest responsible and qualified bidder within the budget figure.
8. Liquidated damages in the amount of \$350.00 per day shall be charged to the Contractor for failure to complete the contract as outlined in IB 1.09.

IB 1.03 Accompanying Documents to Bid Form

In addition to the Standard Bid Proposal Form, each bidder shall submit with his/her bid:

1. Employment Information Form
2. Bid bond, if bid price exceeds amounts outlined in IB 1.11.
3. A Department of Labor Wage Certificate if bid exceeds the amount outlined in IB 1.10
4. Pre-Bid Representative Form
5. A signed Security Regulations Section
6. Qualification documents as outlined in IB 1.06.
7. State of CT Small Contractors Set-Aside Program Certificate
8. Minority Set-Aside Information, if applicable, as outlined in IB 1.17

9. Gift and Campaign Contribution Certification

IB 1.04 Scope of Work

1. The bid must include all costs associated with the Project in its entirety, including but not limited to all required labor, supervision, equipment, services and materials necessary to complete the Project pursuant to the Project Specifications.

IB 1.05 Location and Examination of Site

1. The Project site is:

**Corrigan CC
986 Norwich-New London Tpke.
Uncasville, CT 06382**

Prior to submitting a bid, all bidders or bidders' designated representative(s) bidding for this Project are required to visit and examine the Project site in order to verify job conditions and site dimensions. A pre-bid meeting shall be scheduled and the time and place of such meeting shall be indicated on the STO-93. No bid will be honored if the Contractor or designated representative does not attend the pre-bid meeting

2. Any questions pertaining to the Project after the pre-bid meeting must be submitted in writing at least one (1) week prior to the bid opening to: Kathy Woodward, AFAO. Copies of all questions and responses shall be provided in writing to all bidders by the **DOC Project Manager: Rick Hamel, Plant Facilities Engineer 1 (District 3)**.
4. All bidders will receive (1) set of plans and one copy of the Project's technical specifications. It is the bidder's responsibility to provide a set to any proposed Subcontractors.

IB 1.06 Contractor Qualification Requirement

1. The bidder shall demonstrate the capability to execute the Project pursuant to the Project Specifications by submitting evidence and documentation of the following
 - a. The completion of three (3) projects of similar size and scope to the Project performed within the last twelve (12) months. Include the name, address and telephone number of a contact at each job that can be contacted, who is familiar with the job, and who is able to provide a reference for the bidder.
 - b. Valid Connecticut license(s) required to perform any and all of the work associated with the Project and, if applicable, any additional qualifications required to satisfy the Project's Specifications.

IB 1.07 Protection of Work and Property

1. All property related to the Project, including but not limited to all buildings, equipment, furnishings, and grounds landscaping, shall be protected by the Contractor and Subcontractors from damage of any description and any such damage shall be repaired by the Contractor and the Contractor shall return the property to its original condition as existed prior to any such damage, in a timely manner, at no expense to the State and to the satisfaction of the DOC Project Manager.
2. The Contractor shall supply and install any and all protective precautions, including but not limited to protective coverings and barricades necessary to protect at all times any and all individuals from any injury. Security barriers shall be provided and installed by the Contractor to separate the work area from the facility's and/or the facilities' normal operations.
3. The Contractor shall be held responsible for, and must rectify at his or her expense, any and all damage, including but not limited to water damage, due to the installation, placement and/or use of improper protective coverings.
4. The Contractor shall, at all times, assume all responsibilities for loss or damage by fire to the Project site and any and all of the existing areas adjoining the Project site and to any and all of the materials to be used as specified in the Contract until the satisfaction of the Contract. No flammable materials(s) shall be stored on or in the Project site in excess of the amounts allowed by all authorities having jurisdiction over the Project site.
5. The Contractor shall be responsible for all compliance with any and all current State of Connecticut statutes and regulations, including but not limited to OSHA, State Fire Safety Codes (and supplements thereto), and the State Building Code (and supplements thereto).
6. The Contractor shall at all times maintain the premises and keep the premises free of all waste materials, including but not limited to rubbish and refuse, resulting from any activities related to the execution of this contract. All accumulated waste materials shall be removed from the Project site on a daily basis, at the Contractor's expense.

IB 1.08 Form of Guarantee--Warranty

1. The General Contractor shall furnish the foregoing documents in the following manner:

Address to:

Department of Correction
Facilities Management & Engineering Unit
24 Wolcott Hill Road
Wethersfield, CT 06109
Attn: Kathy Woodward, AFAO

Provide name and number of project.

I (we) hereby guarantee, (or warrantee), this project against failures of workmanship, equipment and materials for a minimum period of three (3) years and as defined in each section of the technical specifications. The guarantee (or warrantee) period shall commence from the Agency's approved completion date.

2. All guarantees supplied by subcontractors, suppliers or manufacturers shall be in writing and countersigned by the General Contractor.

IB 1.09 Time of Completion

1. The contractor shall complete the project within **210** calendar days of contract award or notice to proceed. Once on site, the contractor's work force shall remain mobilized until work is completed unless otherwise specifically approved by the AFAO. Working days for this project shall be Monday through Friday, exclusive of State or national Holidays. No Saturday or Sunday work shall be allowed without special agency permission. Unless a time extension is approved in writing by the AFAO, failure to comply with IB 1.09 shall result in liquidated damages defined in IB 1.02(8).

IB 1.10 Wage Rates

1. Prevailing wage rates are applicable if the accepted bid exceeds the sum of \$100,000. The Contractor is responsible for the payment of wages that are in accordance with the rate published by the Connecticut State Labor DOC that is relevant to the Project site. See www.ctdol.state.ct.us/wgwkstnd/prevailing-rates/rates.htm. See also Connecticut General Statutes section 31-53.
2. In accordance with the provisions of Connecticut General Statute Section 31-53, the following shall apply to the execution of the Contract:
 - (a)... The wages paid on an hourly basis to any person performing the work of any mechanic, laborer or worker on the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such person to any employee welfare fund, as defined in subsection (h) of this section, shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the town in which such public works project is being constructed. Any Contractor who is not obligated by agreement to make payment or contribution on behalf of such persons to any such employee welfare fund shall pay to each mechanic, laborer or worker as part of such person's wages the amount of payment or contribution for such person's classification on each pay day ... (h) As used in this section, ... "employee welfare fund" means any trust fund established by one or more employers and one or more labor organizations or one or more other third parties not affiliated with the employers to provide from moneys in the fund, whether through the purchase of insurance

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or annuity contracts or otherwise, benefits under an employee welfare plan . . . and “benefits under an employee welfare plan” means one or more benefits or services under any plan established or maintained for persons performing the work of any mechanics, laborers or workers or their families or dependents, or for both, including, but not limited to, medical, surgical or hospital care; benefits in the event of sickness, accident, disability or death; benefits in the event of unemployment, or retirement benefits.

3. All Contractors must submit on a weekly basis a certified payroll and compliance statement to the DOC, Facilities Management and Engineering Unit, Attn: Enter AFAO's Name, AFAO. The certified payroll shall be considered a public record, and any individual or other requestor shall have the right to inspect and copy such records in accordance with the Connecticut Freedom of Information Act, Connecticut General Statutes sections 1-212, et seq. A Payroll Certification for Public Works Projects Form has been attached hereto.

IB 1.11 Bonds

1. If the bid exceeds \$50,000, a bid surety of not less than 10% of the bid amount must accompany the bid in the form of a bond or a certified check made out to the Comptroller of the State of Connecticut.
2. If the bid amount exceeds \$50,000, a performance and labor and material payment surety of not less than 100% of the bid amount must be submitted by the bidder in the form of a bond made out to the Comptroller of the State of Connecticut. Said surety shall be submitted to the DOC prior to award of Contract and issuance of purchase order.

IB 1.12 Insurance

1. The Contractor shall not commence work under this Contract until he or she has obtained the required insurance detailed in this Section and until said insurance has been approved by the DOC. The Contractor shall not permit any Subcontractor(s) to commence work until the insurance required for the Subcontractor(s) has been obtained and approved by the DOC. The Contractor shall submit the insurance certificate to Kathy Woodward, AFAO.
2. Pursuant to Connecticut General Statutes section 31-275, et seq., the Contractor shall maintain and provide Workers' Compensation insurance for all employees working at the Project Site and, in the case that any work is sublet, the Contractor shall require each Subcontractor to maintain and provide Workers' Compensation insurance for all of the Subcontractor's employees. All Workers' Compensation insurance shall be maintained for the life of the Contract. In case any class of employees or individual employee engaged in hazardous work pursuant to this Contract is not protected under Connecticut General Statutes section 31-275, et seq., the Contractor shall provide, at the Contractor's expense, and shall cause each Subcontractor to provide at the Subcontractor's expense,

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insurance coverage for such employees or employee. See *also* Connecticut General Statutes sections 31-286a, 31-286b.

3. For the life of the Contract, the Contractor shall maintain public liability and property damage insurance to protect both the Contractor’s and the DOC’s interests related to all aspects of the Project. The Contractor and, in the case that any work is sublet, any and all Subcontractors(s), shall maintain insurance protection for claims of damage(s) for injury, including but not limited to accidental death, and for property damage which may arise from any operations under this Contract, whether such operations be performed by the Contractor or the Subcontractor(s) or by any employee(s) of the Contractor or Subcontractor(s). Types and amounts of insurance required are as follows:

DESCRIPTION	COVERAGE	SINGLE LIMIT	EACH ACCIDENT	AGGREGATE
Protective Liability	BI	\$1,000,000		
Protective Liability	PD	\$100,000		\$500,000
(for and in the name of the State of Connecticut)				
Contractor's Liability	BI	\$1,000,000		
Contractor's Liability	PD	\$100,000		\$500,000
Contractor's Protective Liability	BI	\$1,000,000		
Contractor's Protective Liability	PD	\$100,000		\$500,000

Coverage for damage or loss resulting from Type C - Collapse or Structural Injury, Type U - Underground Damage, Type X - explosion or blasting, ordinarily excluded from coverage, shall be provided in the amounts and manner specified in this article if required in the proposal for the specified project. Builders Risk insurance, not ordinarily required, shall be provided in accordance with the amount and manner specified in the proposal for the specified project if such insurance is required in the proposal.

IB 1.13 Licenses

1. It is the responsibility of the Contractor to secure all licenses, permits, approvals or other documents necessary to execute and complete the Project.

IB 1.14 Security

1. The contractor and, if any Subcontractor(s), shall abide by all Security Regulations as described in or attached to this documentation or any other Regulations or Administrative Directives promulgated by the DOC.

IB 1.15 Commencement of Work

1. The Contractor will not commence work until he or she has a fully executed and approved purchase order distributed by the DOC. Within five (5) working days after receipt of such purchase order and prior to the start of work associated with the Project, the DOC Project Manager shall schedule a pre-construction meeting with the Contractor. At that meeting, a start date and construction schedule will be established.

IB 1.16 Payment

1. Payment will be processed as follows:
 - a. Projects under \$50,000.00: A single invoice shall be submitted to the AFAO by the Contractor following the acceptance of the completed Project.
 - b. Projects over \$50,000.00: Three (3) invoices shall be submitted to the AFAO by the Contractor: (1) the first invoice shall be submitted to the AFAO when the Project is at least 50% complete based on the approved schedule of values and validated by the DOC Project Manager; (2) the second invoice shall be submitted to the AFAO when the Project is at least 80% complete based on the approved schedule of values and validated by the DOC Project Manager; and (3) the third invoice shall be submitted to the AFAO when the Project is completed and accepted by the DOC.
 - c. At least 10% of the first and second invoice amounts will be withheld by DOC as retainage and paid when the Project is completed and accepted by the DOC.

IB 1.17 Minority Business & Small Contractors' Set-Aside Program

1. Pursuant to Connecticut General Statutes Sections 4a-60g, et seq., 25% of each state agency's contracts are to be set aside for small business enterprises. In addition, 25% of that amount (6.25%) shall be reserved for small businesses which are minority/women owned.
2. The Contractor shall submit the names and addresses of the business/es to be utilized, as

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part of the Bid Package on company letterhead. If any Minority-owned Business Enterprise (“MBE”) changes in any way or form during the life of the Contract, such information shall be forwarded to Kathy Woodward, AFAO.

End of Section – INSTRUCTION TO BIDDERS

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2. GENERAL CONDITIONS

GC 2.01 General

1. In addition to the conditions set forth in Section 1, "Instructions to Bidders," the following General Conditions shall apply and form an equal part of the Contract documents.

GC 2.02 Use of the Premises

1. Unless specifically noted, nothing contained in the Project Specifications shall be interpreted as providing the Contractor exclusive use of the premises where the work related to the Project is being performed.
2. The Contractor shall be held solely responsible for any and all damage(s) to the existing site of the Project, including but not limited to existing structures, systems, equipment, property, or other aspects of the existing site caused by the Contractor, Subcontractor(s), the Contractor's agents, employees or invitees. The Contractor shall repair such damage(s) and/or replace such damaged structures, systems, equipment, property, or other aspects of the existing site of the Project. Such repair and/or replacement shall take place as directed by the Project Manager in a timely manner and at no additional cost to the DOC.
3. The work of the Contract shall not interfere with the normal conditions, safe operation and security of the facility and the site. If such interference occurs, becomes, or appears possible because of work of the Project, including but not limited to the new construction, existing work or for other reasons, the work involved shall be scheduled for a time and in a manner as directed by the Project Manager as a part of the Contract.
4. At all times throughout the duration of the Contract, the Project Manager shall direct the schedule and manner of work in order to preserve the integrity of the facility's or facilities' safety and security.

GC 2.03 Scheduling of Escorts

1. The Contractor shall provide the Project Manager and other designated facility personnel 48 hour notice of the need for an escort(s) for the Contractor, Subcontractor(s), or the Contractor's employees, agents or invitees to enter a facility. Notice shall include: (1) the number of personnel requiring entry to the facility; (2) indication of whether such personnel will need access to more than one area of the facility; (3) which area(s) of the facility must be entered; (4) the month, date, hour of arrival; and (5) the number of hours to be spent in the facility.

GENERAL CONDITIONS

2. Once an escort(s) is scheduled, the Contractor shall provide 48-hour notice of any scheduling changes to the Project Manager and designated facility personnel. Failure to notify the Project Manager and designated facility personnel of scheduling change that results in the assignment of unnecessary escorts shall constitute a “no show occurrence” and result in a fine as set forth in this Section.
3. The Contractor shall be fined \$360.00 per escort per day for any “no show occurrence”.
4. Bona fide emergency situations, including but not limited to severe weather, vehicular breakdown or accident or contractor personnel illness that require cancelling an escort(s) on a scheduled date, require notice to the Project Manager and designated facility personnel two-hours before scheduled arrival time, if possible. Emergency situations shall be evaluated by the Project Manager on a case by case basis.
5. Names of designated facility personnel and a 24-hour contact telephone number shall be provided to the Contractor upon Contract award.

GC 2.04 Storage of Equipment and Materials

1. All materials, tools, equipment, and other items necessary for the completion of the Project (“materials”) shall be delivered only to the Contractor and only when the Contractor is present on the site. DOC personnel shall not receive or accept any deliveries at any time.
2. The Contractor shall obtain instructions from the Project Manager as to available space and/or staging areas for storing any and all materials. If adequate space is not available, the Contractor shall provide his or her own secure storage facility and in all cases be responsible for the security of such storage facilities and the safety and condition of the materials stored therein.
3. The Contractor shall maintain and store all materials used throughout the life of the Project in a manner so as not to obstruct traffic, impede the progress of the Project, or interfere with DOC operations. The Project Manager reserves the right to direct such proper maintenance and storage.
4. The Contractor shall protect all materials delivered to the Project site from any and all damages to such materials, including but not limited to weather damage, loss or vandalism. All materials shall remain the Contractor’s property and shall remain under his or her control until completion of the Project.

GC 2.05 Codes, Rules, Ordinances and Approvals

1. All materials furnished and all work installed and completed shall comply with the rules and regulations set forth by the State of Connecticut and must comply with all applicable State and local codes, laws, ordinances, rules and regulations, with all requirements of local utility companies, and with the recommendations of the Insurance Rating Organization having jurisdiction over the Project.
2. The Contractor shall, at his or her expense, obtain all notices, permits, licenses, approvals, assessments of fees and costs, and certifications of inspection. The Contractor shall provide and deliver same to Kathy Woodward, AFAO requesting acceptance and final payment.
3. All apparatus, materials, equipment, including but not limited to ladders, scaffolding, chutes, and dumpsters, shall be in the condition(s) and operated in the manner(s) required by the Manual of Accident Prevention in Construction, published by the Associated General Contractors of America, OSHA, including all updated revisions thereto, and any other relevant guidelines.
4. The Contractor shall at all times maintain a fire-safe environment. Fire extinguishers are to be provided by the Contractor at all work sites and must be of the size and type required for the work performed. There shall be fire extinguisher operators on-site at all times. Fire extinguisher operators shall be certified in the use of fire extinguishers of the size and type utilized at the Project site. The DOC facility's fire sprinkler and alarm systems shall not be shut down or impaired without the approval of the Project Manager. Welding shall be performed only by certified welders. It shall be the responsibility of the Contractor to obtain a "Hot Work Permit" from the DOC Fire Safety Unit or the Facility Maintenance Supervisor. All work shall be in accordance with the National Fire Protection Association (NFPA) 241 Standard for Safeguarding Construction, Alteration and Demolition operations and the DOC Facilities Management and Engineering Policy, Document Number 008.
5. All codes, laws, rules, ordinances, regulations and recommendations must be complied with at all times. If there is a violation of any codes, laws, rules, ordinances, regulations, recommendations or any of the above provisions by the actions of the Contractor or as a result of the Project Specifications, the Contractor shall alert the Project Manager of any and all such violations prior to making any changes or alterations to the Project Specifications or before proceeding with the Project.

GC 2.06 Salvage and Disposal

1. All materials that are salvageable are the property of the DOC. The Project Specifications shall specify which materials the DOC shall retain and which materials the Contractor shall retain. DOC retained material(s) is to be relocated by the Contractor, at the Contractors' expense, to an area designated by the Project Manager.

2. All debris, rubbish, garbage or other disposable materials resulting from the performance of this Contract shall be the property of the Contractor and shall be removed from the Project site on a weekly basis or as directed by the Project Manager. The Project Manager shall designate what materials are to be deemed debris, rubbish, garbage or disposable for any reason.
3. The Contractor shall supply, use and maintain all chutes and dumpster containers designed to keep dust and spillage to a minimum at all times deemed necessary by the Project Manager.
4. The Contractor shall be solely responsible for obtaining all permits, manifests, fees or other requirements for the proper disposal of the materials cited in this Section. The Contractor shall be solely responsible for keeping such permits and manifests current pursuant to law.

GC 2.07 Maintenance of Utilities

1. The DOC has the responsibility for and control of the operation of the entire utility distribution system on site. Any operational function related to the Project, including but not limited to all operational changes, shall be approved, coordinated and scheduled by the Project Manager.
2. When installation of new work requires the temporary shutdown of an existing operating system, such new work shall be performed at such time as designated by the DOC in coordination with the Project Manager. The DOC reserves the right to limit the duration of the shutdown to a specified number of net hours and to set the date and time of each occasion of any complete shutdown. The Contractor shall notify the Project Manager of the estimated duration of the shutdown period at least seven (7) days in advance of the date the work necessitating such shutdown is to be performed. Approval of any shutdown is at the discretion of the Project Manager.
3. The Contractor shall be responsible for and shall have all tools, supplies, equipment and labor necessary for the work to be performed immediately upon the onset of shutdown period. The Project Manager reserves the right to inspect such materials at any time.
4. When any shutdown to services that will interrupt critical operations of the facility or facilities must take place, the Contractor shall be responsible for the provision of a safe and adequate temporary means of service replacement for the duration of the shutdown. This service replacement shall be provided at the expense of the Contractor and shall be approved prior to replacement by the Project Manager. The Contractor shall remove any service replacement when it is no longer required.

GC 2.08 Change Orders

1. No additional time or compensation shall be granted beyond that noted on the original Purchase Order, unless approved in writing by Kathy Woodward, AFAO. Changes or approvals from any other entity shall not be honored.

GC 2.09 Shop Drawings

1. Shop drawings shall be submitted as required in accordance with the Project Specifications and any other Technical Specifications.
2. The Contractor shall make any corrections to the shop drawings as required by the Project Manager at no additional cost to the State. At the Contractor's expense, the Contractor shall resubmit the required number of copies of the proposed corrected copies until such proposed correction(s) is approved by the Project Manager.
3. The Contractor shall notify the Project Manager of any and all deviations from or changes to the Contract documents. An approval of such deviation or change shall not be considered an acceptance of same unless the approval has been clearly and explicitly identified in writing by Kathy Woodward, AFAO.

GC 2.10 Substitutions

1. Unless specifically noted in the Contract, only named products are used to indicate a level of quality and standard of performance. Other products may be substituted for the named product(s), providing that the Contractor supplies the Project Manager documentation demonstrating that the proposed substitution(s) is of equal or greater quality and meets an equal or greater standard of performance compared to the product(s) that is specified in the Contract. All such documentation shall be submitted and approved or rejected in writing by the Project Manager prior to the award of the Contract.
2. The Project Manager retains the right to determine, based on the submitted documentation, whether the proposed product(s) is of equal or greater quality compared to the named products(s).

End of Section - GENERAL CONDITIONS

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3. SECURITY REGULATIONS FOR CONTRACT FORCES

SR 3.01 Admittance to Facility

1. Due to the location and nature of the work related to the Project, the DOC shall issue security badges to the Contractor, Subcontractors, and any and all of the Contractors' employees, agents or invitees. These security badges shall be worn and visible at all times within the confines of the correctional facility or facilities and anywhere on DOC grounds.
2. All bidders and contracted personnel shall complete a Security Division "Collect Background Report for Vendors" form which will require the following information at least two weeks prior to the individual(s) admittance to DOC facilities.
 - a. Name of the individual
 - b. Date of Birth
 - c. Social Security Number
 - d. Driver's License Number
 - e. Physical Characteristics (i.e. age, weight, height, etc.)
3. The completed report shall be faxed to the number indicated on the form.

SR 3.02 Official Working Rules

1. The Contractor is required to adhere to DOC Official Working Rules at all times as follows:
 - a. There shall be no verbal or personal contact with any inmate;
 - b. All individuals working pursuant to the Contract shall be under the observation of a DOC official at all times;
 - c. The entry and exit of all individuals working pursuant to the Contract shall be monitored by a DOC official at all times;
 - d. The DOC official reserves the right to refuse admittance to any individual working pursuant to the Contract for any cause determined by the DOC to be sufficient;
 - e. Any and all equipment shall be inspected by DOC personnel on a daily basis and, when not in use, shall be locked in a secure place as the DOC official may direct;
 - f. When not in use, the Contractor shall make any and all materials unusable by inmates and/or shall supervise the security of any and all materials so that such materials are unusable by inmates;
 - g. Any and all dangerous instruments, including but not limited to hacksaws, blades, and files, determined as such by a DOC official, shall remain in the custody of a DOC official at all times, except such time(s) as the instrument(s) is in use;
 - h. In the event of any emergency, all individuals working pursuant to the Contract

SECURITY REGULATIONS FOR CONTRACT FORCES

- shall be escorted off DOC grounds by a DOC official;
- i. All questions pertaining to interruptions of service or the safety of the facility shall be addressed to the appropriate DOC official;
 - j. Work at the facility or on DOC grounds shall be executed between the hours of 8:00 a.m. and 12:00 noon and 12:30 p.m. and 4:30 p.m. The maximum working day is eight (8) hours. No work shall be executed at the facility or on DOC grounds on any weekend or designated holiday; and
 - k. The Contractor shall provide the DOC a copy of all material safety data sheets for any and all products used in the process of completion of the Project, including but not limited to construction materials and any other products brought onto DOC grounds.

SR 3.03 Rules and Regulations of the Dept. of Correction Facility

1. All persons employed by or entering a DOC facility, including the Contractor, Subcontractor(s), the Contractor's employees, agents or invitees, shall read SR 3.01-SR 3.08. Each individual governed by this Contract shall sign at the end of this document to attest that he or she has read SR 3.01-SR 3.08 and understands such Rules and Regulations and relevant law and the penalties imposed by any and all violation(s) of the Rules and Regulations and relevant law. The signed and dated copy of the Security Regulations for Contract Forces document shall be submitted to the Project Manager prior to initial admittance to a DOC facility.

SR 3.04 Restricted Areas

1. Upon entering the grounds of any DOC facility, all persons except DOC personnel, shall be restricted to the immediate area of the Project site as determined by the Project Manager. Only persons having official business and security clearance shall be admitted to the Project site. In order to gain admittance to other areas of DOC grounds, written permission must be granted by the supervisory DOC official.

SR 3.05 Inmates

1. There may be times when inmates may be working adjacent to or in the same area as Project personnel. All persons are prohibited from accepting or giving anything to an inmate. Inmates are accountable to DOC personnel only; no other person(s) shall have any conversations or dealings of any kind with any inmate without the prior approval of DOC authorities.

SR 3.06 Vehicle Control

1. Any and all persons entering DOC grounds shall remove ignition keys from their vehicle(s) and lock their vehicle(s).

**SECURITY REGULATIONS
FOR CONTRACT FORCES**

SR 3.07 Contraband

1. Clothing or contraband shall not be brought into or onto the DOC grounds or left in a vehicle. Contraband is defined in subsequent subsections of this Section and all persons are subject to DOC Facility Rules and Regulations concerning contraband when on DOC grounds.
2. The introduction or attempt to introduce into or upon DOC grounds or the taking or attempt to take or send there from any items(s) deemed contraband pursuant to DOC Rules and Regulations without the knowledge and approval of the Facility Supervisor is prohibited.
3. Contraband is defined as any article whatsoever which is unauthorized by DOC Rules and Regulations and may include but is not limited to letters, stamps, tools, weapons, papers, floor implements, writing materials, messages (written and verbal), and instruments. Any questions which may arise regarding such matters must be discussed promptly with the Facility Supervisor.
4. Failure or negligence to comply with DOC Rules and Regulations shall result in immediate disciplinary action and/or removal from the Project site. The Connecticut State Police shall be notified of all violations of these DOC Rules and Regulations.

SR 3.08 "State Laws Governing Contraband"

1. Connecticut General Statutes section 53a-174 provides:
 - a. Any person not authorized by law who conveys or passes, or causes to be conveyed or passed, into any correctional or humane institution or on the grounds or buildings thereof, or to any inmate of such an institution who is outside the premises thereof and known to the person so conveying or passing or causing such conveying or passing to be such an inmate, any controlled drug, as defined in Connecticut General Statute section 21a-240, any intoxicating liquors, any firearm, weapon, dangerous instrument or explosive of any kind, any United States currency, or any rope, ladder or other instrument or device for use in making, attempting or aiding an escape, shall be guilty of a class D felony. The unauthorized conveying, passing or possession of any rope or ladder or other instrument or device, adapted for use in making or aiding an escape, into any such institution or the grounds or buildings thereof, shall be presumptive evidence that it was so conveyed, passed or possessed for such use.
 - b. Any person not authorized by law who conveys into any such institution any letter or any missive which is intended for any person confined therein, or who conveys from within the enclosure to the outside of such institution any letter or other missive written or given by any person confined therein, shall be guilty of a class A misdemeanor.

**SECURITY REGULATIONS
FOR CONTRACT FORCES**

- c. Any person or visitor who enters or attempts to enter a correctional institution or facility by using a misleading or false name or title shall be guilty of a class A misdemeanor.
2. Connecticut General Statutes section 53a-174a provides:
- a. Any person is guilty of possession of a weapon or dangerous instrument in a correctional institution when, being an inmate of such institution when, being an inmate of such institution, he knowingly makes, conveys from place to place or has in his possession or under his control any firearm, weapon, dangerous instrument, explosive or any other substance or thing designed to kill, injure or disable.
 - b. Possession of a weapon or dangerous instrument in a correctional institution is a Class B felony.
3. Connecticut General Statutes section 53a-174b provides:
- a. Any person not authorized by the Commissioner of Correction or the commissioner's designee who (1) conveys or possesses with intent to convey an electronic wireless communication device to an inmate of a correctional institution while such inmate is in the institution, or (2) uses an electronic wireless communication device to take a photographic or digital image in a correctional institution, shall be guilty of a class A misdemeanor.
4. Connecticut General Statutes section 53a-35a provides in relevant part: "For any felony committed on or after July 1, 1981, the sentence of imprisonment shall be a definite sentence and the term shall be fixed by the court as follows:
... (6) for a class B felony other than manslaughter in the first degree... a term not less than one year nor more than twenty years... (8) for a class D felony, a term not less than one year nor more than five years..."
5. Connecticut General Statutes section 53a-36 provides in relevant part: "A sentence of imprisonment for a misdemeanor shall be a definite sentence and the term shall be fixed by the court as follows: (1) For a class A misdemeanor, a term not to exceed one year..."

I hereby attest to the fact that I have read SR 3.01-SR 3.08 and understand the Rules and Regulations and relevant law and the penalties imposed by any and all violation(s) of the Rules and Regulations and relevant law.

Signed: _____

Printed: _____

Dated: _____

SECTION 28 31 00

NETWORKED FIRE ALARM SYSTEM

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Small addressable fire alarm system.

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1.3 REFERENCES

- A. Electrical Industries Association (EIA):
 1. EIA-232-D – Interface Between Data Terminal Equipment and Data Circuit-Terminating Equipment Employing Serial Binary Data Interchange
 2. EIA-485 – Electrical Characteristics of Generators and Receivers for Use in Balanced Multipoint Systems

- B. National Fire Protection Association (NFPA):
 1. NFPA 12 – Standard on Carbon Dioxide Extinguishing Systems.
 2. NFPA 13 – Installation of Sprinkler Systems.
 3. NFPA 15 – Standard for Water Spray Fixed Systems for Fire Protection.
 4. NFPA 16 – Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems.
 5. NFPA 16A – Standard for the Installation of Closed Head Foam-Water Sprinkler Systems.
 6. NFPA 70 – National Electrical Code 2005 Edition (NEC).
 7. NFPA 72 – National Fire Alarm Code 2002 Edition
 8. NFPA 90A – Standard for the Installation of Air Conditioning and Ventilating Systems.
 9. NFPA 101 – Life Safety Code.
 10. NFPA 750 – Standard on Water Mist Fire Protection Systems.
 11. NFPA 5000 – Building Construction and Safety Code.

- C. Fire Alarm Control Panel Equipment: System shall comply with applicable provisions of the following UL standards and classifications:
 1. UL 864 9th Edition.
 2. UOJZ, Control Units, System.
 3. SYZV Control Units, Releasing Device.
 4. UOXX, Control Unit Accessories, System.

1.4 SYSTEM DESCRIPTION

- A. A new intelligent reporting, Style 7 networked, fully peer-to-peer, microprocessor-controlled fire detection and notification system shall be installed in accordance with the specifications, the Statement of Work, and as indicated on the Drawings.
- B. Each Signaling Line Circuit (SLC) and Notification Appliance Circuit (NAC): Limited to only 80 percent of its total capacity during initial installation.
- C. Basic Performance:
 - 1. Network Communications Circuit Serving Network Nodes: Wired using single twisted non-shielded 2-conductor cable or connected using approved fiber optic cable between nodes in Class A configuration.
 - 2. Signaling Line Circuits (SLC) Serving Addressable Devices: Wired Class A.
 - 3. Initiation Device Circuits (IDC) Serving Non-addressable Devices Connected to Addressable Monitor Modules: Wired Class A.
 - 4. Notification Appliance Circuits (NAC) Serving Strobes and Horns: Wired Class A (NFPA Style Z).
 - 5. On Style 6 or 7 (Class A) Configurations: Single ground fault or open circuit on Signaling Line Circuit shall not cause system malfunction, loss of operating power, or ability to report alarm.
 - 6. Alarm Signals Arriving at Control Panel: Not lost following primary power failure until alarm signal is processed and recorded.
 - 7. Network Node Communications:
 - a. Communicated between panels on single pair of copper wires or fiber optic cables.
 - b. To enhance system survivability, ability to operate on loss of one network node, short or open of network riser shall be demonstrated at time of system acceptance testing.
 - c. Systems that are not capable of providing true Style 7 riser performance shall not be acceptable.
 - 8. Signaling Line Circuits (SLC):
 - a. SLC modules shall operate in peer-to-peer fashion with all SLC modules in the Control Panel.
 - b. On loss of an SLC module, each remaining panel shall continue to communicate with remainder of system, including all SLC and control functions. Systems that provide a "Degraded" mode of operation upon loss of one networked node or short in network riser shall not be acceptable.
 - 9. NAC Circuits: Arranged such that there is a minimum of 1 audible device per fire alarm zone.
 - 10. Notification Appliance Circuits (NAC), and Control Equipment: Arranged such that loss of any 1 NAC circuit will not cause loss of any other NAC circuit in system.
 - 11. NAC Circuits:
 - a. Electrically supervised for open and short circuit conditions.
 - b. If short circuit exists on NAC circuit, it shall not be possible to activate that circuit.
- D. Basic System Functional Operation: When fire alarm condition is detected and reported by one of the system alarm initiating devices, the following functions shall immediately occur:
 - 1. System Alarm LEDs: Flash.
 - 2. Local Piezo-Electric Signal in Control Panel: Sound at a pulse rate.
 - 3. 4.3 inch Color Touchscreen Display: Indicate all information associated with fire alarm condition, including type of alarm point and its location within protected premises.

4. Historical Log: Record information associated with fire alarm control panel condition, along with time and date of occurrence. History Log shall have a capacity for recording up to 4,100 events.
5. System output programs assigned via control-by-event equations to be activated by particular point in alarm shall be executed, and the associated system outputs (alarm notification appliances and/or relays) shall be activated.
 - a. Close Fire Doors
 - b. Shot down air handlers as required by code
 - c. Notify the Central Station or Municipal Tie.
6. Strobes flash synchronized continuously.
7. Audible devices sound continuous Temporal pattern until system is reset.

E. Fire Alarm System Functionality:

1. Provide complete, electrically supervised distributed, Style 7 networked analog/addressable fire alarm and control system, with analog initiating devices.
2. Fire Alarm System:
 - a. Incorporate S3 Series multiprocessor-based control panel SLP motherboard with 4.3 inch color touchscreen annunciator (SLP) and up to 2 loop modules (SLC-PM).
3. Each SLC-PM SLC module: Incorporate 1 Signaling Line Circuits (SLC), with capacity to support up to 159 analog addressable detectors and 159 addressable modules per SLC.
4. All data transmits over single pair of wires or fiber optic cable.
5. Each Network Node: Incorporate Boolean control-by-event programming, including as a minimum AND, OR, NOT, and Timer functions.
6. Control Panels: Capability to accept firmware upgrades via connection with laptop computer, without requirement of replacing microchips.
7. Network:
 - a. Based on peer-to-peer token ring technology operating at 625 K baud, using Style 7 configuration.
 - b. Capability of using twisted-pair wiring, pair of fiber optic cable strands up to 200 microns, or both, to maximize flexibility in system configuration.
8. Each Network Node:
 - a. Capability of being programmed off-line using Windows-based software utilized by fire alarm system manufacturer. Capability of being downloaded by connecting laptop computer into any other node in system. Systems that require system software to be downloaded to each transponder at each transponder location shall not be acceptable.
 - b. Capability of being grouped with any number of additional nodes to produce a "Region", allowing that group of nodes to act as 1, while retaining peer-to-peer functionality. Systems utilizing "Master/Slave" configurations shall not be acceptable.
 - c. Capability of annunciating all events within its "Region" or annunciating all events from entire network, on front panel LCD without additional equipment.
9. Each Control Panel: Capability of storing its entire program, and allow installer to activate only devices that are installed during construction, without further downloading of system.
10. Password Protection: Each system shall be provided with 4 levels of password protection with up to 16 passwords using 6 digits.
11. Control panel shall have an Ethernet port (RJ-45) located on the main control board, which can be used for uploading and downloading programs from a laptop or desktop computer. The Ethernet port can also be used for interface to a Graphic Control System when such a system is specified.

1.5 SUBMITTALS

- A. Comply with Section 01330 (01 33 00) – Submittal Procedures.
- B. Include sufficient information, clearly presented, to determine compliance with the specifications and the Drawings.
- C. Equipment Submittals:
 - 1. Cover Page: Indicate the following:
 - a. Project name and address.
 - b. Engineered systems distributor's name and other contact information.
 - c. Installing contractor's name and other contact information.
 - d. Date of equipment submittals. Indicate on revised submittals the original submittal date and revised submittal date.
 - 2. Table of Contents: Lists each section of equipment submittal.
 - 3. Scope of Work Narrative: Detail indented scope of work.
 - 4. Sequence of Operations: Use matrix or written text format, detailing activation of each type of device and associated resulting activation of the following:
 - a. Control panel.
 - b. Annunciator panels.
 - c. Notification appliances.
 - d. Building fire safety functions, including elevator recall, elevator power shutdown, door lock release, door holder release, HVAC unit shutdown, smoke evacuation system activation, and stair pressurization fan activation.
 - 5. Bill of Material: Indicate for each component of system the following:
 - a. Quantity.
 - b. Model number.
 - c. Description.
 - 6. SLC Circuit Schedule: Detail address and associated description of each addressable device. Clearly provide information that indicates number of both active and spare addresses.
 - 7. Battery Calculations: Show load of each of, and total of, components of system along with standby and alarm times that calculations are based on. Show calculated spare capacity and size of intended battery.
- D. Shop Drawings:
 - 1. Cover Page: Indicate the following:
 - a. Project name and address.
 - b. Engineered systems distributor's name and other contact information.
 - c. Installing contractor's name and other contact information.
 - d. Date of equipment submittals. Indicate on revised submittals the original submittal date and revised submittal date.
 - 2. Floor Plans:
 - a. Provide separate floor plan for each floor.
 - b. If a floor plan must be split using match lines to fit on the page, provide match lines and match line references that refer to sheet number that shows area on opposite side of match line.
 - c. Prepare using AutoCAD.
 - d. Prepare to scale 1/8 inch = 1'-0", unless otherwise required by the Architect or Engineer.

- e. Show equipment and device locations.
- f. Show wiring information in point-to-point format.
- g. Show conduit routing, if required by the AHJ.
- 3. Title Block: Provide on each sheet and include, at a minimum, the following:
 - a. Project name.
 - b. Project address.
 - c. Sheet name.
 - d. Sheet number.
 - e. Scale of drawing.
 - f. Date of drawing.
 - g. Revision dates, if applicable.
- 4. Control Panel: Provide sheet that details exterior and interior views of control panel and clearly shows associated wiring information.
- 5. Annunciator Panels: Provide sheet that details exterior and interior views of annunciator panels and clearly shows associated wiring information.

E. Certification: Submit with equipment submittals and shop drawings, letter of certification from major equipment manufacturer, indicating proposed engineered system distributor is an authorized representative of major equipment manufacturer.

F. Project Record Drawings:

- 1. Submit complete project record drawings within 14 calendar days after acceptance test.
- 2. Project record drawings shall be similar to shop drawings, but revised to reflect changes made during construction.

G. Operation and Maintenance Manuals:

- 1. Submit complete operation and maintenance manuals within 14 calendar days after acceptance test.
- 2. Operation and maintenance manuals shall be similar to equipment submittals, but revised to reflect changes made during construction.
- 3. Include factory's standard installation and operating instructions.

1.6 QUALITY ASSURANCE

A. Codes and Standards:

- 1. NFPA: System shall comply with the following NFPA codes and standards:
 - a. NFPA 12 – Standard on Carbon Dioxide Extinguishing Systems.
 - b. NFPA 13 – Installation of Sprinkler Systems.
 - c. NFPA 15 – Standard for Water Spray Fixed Systems for Fire Protection.
 - d. NFPA 16 – Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems.
 - e. NFPA 16A – Standard for the Installation of Closed Head Foam-Water Sprinkler Systems.
 - f. NFPA 70 – National Electrical Code 2005 Edition (NEC).
 - g. NFPA 72 – National Fire Alarm Code 2002 Edition
 - h. NFPA 90A – Standard for the Installation of Air Conditioning and Ventilating Systems.
 - i. NFPA 101 – Life Safety Code.
 - j. NFPA 750 – Standard on Water Mist Fire Protection Systems.
 - k. NFPA 5000 – Building Construction and Safety Code.

- B. To ensure reliability and complete compatibility, all items of fire alarm system, including control panels, power supplies, initiating devices, and notification appliances, shall be listed by Underwriters Laboratories Inc. (UL) and shall bear "UL" label.
- C. Fire Alarm Control Panel Equipment: System shall comply with applicable provisions of the following UL standards and classifications:
 - 1. UL 864 9th Edition.
 - 2. UOJZ, Control Units, System.
 - 3. SYZV Control Units, Releasing Device.
 - 4. UOXX, Control Unit Accessories, System.
- D. Equipment, Programming, and Installation Supervision:
 - 1. Provide services of approved Engineered systems distributor of Gamewell-FCI for equipment, programming, and installation supervision.
 - 2. Provide proof of factory training within 14 calendar days of award of the Contract.
- E. Software Modifications:
 - 1. Provide services of Gamewell-FCI factory-trained and authorized technician to perform system software modifications, upgrades, or changes.
 - 2. Provide use of all hardware, software, programming tools, and documentation necessary to modify fire alarm system software on-site.
 - 3. Modification includes addition and deletion of devices, circuits, zones, and changes to system operation and custom label changes for devices or zones.
 - 4. System structure and software shall place no limit on type or extent of software modifications on-site.
 - 5. Modification of software shall not require power-down of system or loss of system fire protection while modifications are being made.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions. An area for storage of all material, equipment, tools and job boxes will be provided by the CT-DOC. A tool check will be performed as all tools are brought on-site at the beginning of the project and on the last day of the project as all tools are removed.
- C. Handling: Protect materials from damage during handling and installation.

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1.9 WARRANTY

- A. Warranty Period for System Equipment: 3 year from date of final acceptance.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Gamewell-FCI, Honeywell Fire Systems, 12 Clintonville Road, Northford, Connecticut 06472. Phone (203) 484-7161. Fax (203) 484-7118. Website: www.gamewell-fci.com.
- B. No other manufacturers, other than Gamewell-FCI, FCI, and Gamewell will be considered for use on this project unless they are proved to be equal to the system specified. All alternate systems proposed must also be UL listed to operate the existing devices. Proof of UL Listing for each existing device will be required in writing at least 30 days before the bid date.

2.2 DISTRIBUTED NETWORKED FIRE ALARM SYSTEM

- A. Distributed Networked Fire Alarm System: Gamewell-FCI S3 Series Small Addressable Fire Alarm System

2.3 CONTROL PANEL HARDWARE

- A. Intelligent Small Addressable Panel (SLP): Supply user interface, including 4.3inch touch-screen display. Control Panel shall consist of the following units and components:
 - 1. System Cabinet (SLP-BB) or Cabinet with associated inner door (S3BB-BB/S3BB-RB).
 - 2. Power Supply Module (FLPS-7) with batteries.
 - 3. SLP Motherboard (SLP-MB).
 - 4. 4.3 inch color touch screen display (LCD-SLP).
 - 5. SLC Modules (SLC-PM) up to 2 per control panel.
 - 6. Left Blank
 - 7. Optional Auxiliary Switch Module (ASM-16).
- B. System Cabinet:
 - 1. Surface or semi-flush mounted with texture finish.
 - 2. Consist of back box and black door (SLP-BB) or back box, inner door, red or black outer door (S3BB-BB/S3BB-RB)
 - 3. Houses 1 FLPS-7 Power Supply Module, 1 SLP-MB assemblies, 1 or 2 SLC-PM modules and other optional modules as specified.
 - 4. Construction: Display-front steel construction with lockout (SLP-BB) or Dead-front steel construction with inner door to conceal internal circuitry and wiring (S3BB-BB/S3BB-RB).
 - 5. Wiring: Terminated on removable terminal blocks to allow field servicing of modules without disrupting system wiring.
- C. Power Supply Module (FLPS-7): Use latest technologies to provide power to the Control Panel and incorporate the following features:
 - 1. Power-saving switching technology using no step-down transformers.
 - 2. 7-amp continuous-rated output to supply up to all power necessary under normal and emergency conditions.
 - 3. Integral battery charger with capacity to charge up to 55 amp-hour batteries while under full load.
- D. Batteries:
 - 1. Sufficient capacity to provide power for entire system upon loss of normal AC power for a period of 24 hours with 15 minutes of alarm signaling at end of this 24-hour period, as required by NFPA 72, Local Systems.

- E. 4.3 inch Color Touch Screen Display Module (LCD-SLP):
1. Color Touch Screen Display: RS-485 based textual annunciator with capability of being mounted locally or remotely. Provides audible and visual annunciation of all alarms and trouble signals. Provide dedicated LEDs for:
 - a. AC: Green.
 - b. Fire Alarm: Red.
 - c. Hazard: Blue.
 - d. Supervisory: Yellow.
 - e. Trouble: Yellow.
 - f. Silenced: Yellow.
 2. 4.3 inch Color Touch Screen Display: Provide status of all analog/addressable sensors, monitor and control modules. Display shall be liquid crystal type (LCD), clearly visible in dark and under all light conditions.
 3. Panel shall contain 3 functional keys:
 - a. Menu.
 - b. Fire Drill.
 - c. System Reset.
 4. Panel shall contain 5 custom programmable function buttons for:
 - a. Alarm Acknowledge.
 - b. Trouble Acknowledge.
 - c. System Silence.
 - d. Fan Reset.
 - e. Lamp Test.
 - f. Other functions like output bypass, device enable/disable, device on/off.
 5. Systems that do not have a minimum of 200 characters (4 lines of 40 characters) are not acceptable.
- F. Intelligent Small Addressable Panel (SLP): System shall be of multiprocessor design to allow maximum flexibility of capabilities and operation. Shall be capable of mounting in stand-alone enclosure as specified.
1. Field Programmable: System shall be capable of being programmed by Field Configuration Program (FCP), allowing programming to be downloaded via portable computer from any node on network.
 2. Ethernet Output: Ethernet port shall be provided to accept downloaded program from portable computer, connect to FocalPoint Graphical Workstation, or provide 80-column readout of all alarms, troubles, location descriptions, time, and date. Communication shall operate at 10/100 speeds.
 3. RS-232C Serial Output: Supervised RS-232C serial port shall be provided to operate remote printers and/or video terminals, accept downloaded program from portable computer, or provide 80-column readout of all alarms, troubles, location descriptions, time, and date. Communication shall be standard ASCII code operating from 1,200 to 115,200 baud rate.
 4. RS-485 Serial Output: Each SLP shall incorporate RS-485 bus via ribbon harness for connection of modules inside same cabinet, and via 4-wire quick connector for connection of modules up to 3,000 feet from cabinet. Each SLP's RS-485 bus shall support up to 16 ASM-16 auxiliary switch modules, 16 LCD-SLP main annunciators, 6 LCD-E3 remote annunciators, and 5 LCD-7100 remote annunciators.
 5. Peer-to-Peer Panel Configuration: All Intelligent Small Addressable Panels shall incorporate own programming, log functions, Central Processor Unit, and control-by-event

- (CBE) programming. If any loop driver becomes disabled, each remaining loop driver shall continue to communicate with remainder of network and maintain normal operation.
6. Control-by-Event (CBE) Program: SLP shall be capable of programming using Boolean logic including AND, OR, NOT, and TIMING functions to provide complete programming flexibility.
 7. Alarm Verification: Smoke detector alarm verification shall be standard option while allowing other devices such as manual stations and sprinkler flow to create immediate alarm. This feature shall be selectable for smoke sensors that are installed in environments prone to nuisance or unwanted alarms.
 8. Alarm Signals: All alarm signals shall be automatically latched or "locked in" at control panel until operated device is returned to normal and control panel is manually reset. When used for sprinkler flow, "SLNC" button may be bypassed, if required by AHJ.
 9. Electrically Supervised:
 - a. Each SLC and NAC circuit shall be electrically supervised for opens, shorts, and ground faults. Occurrence of fault shall activate system trouble circuitry, but shall not interfere with proper operation of other circuits.
 - b. Yellow "TROUBLE" LED shall light and system audible sounder shall steadily sound when trouble is detected in system. Failure of power, open or short circuits on SLC or NAC circuits, disarrangement in system wiring, failure of microprocessor or any identification module, or system ground faults shall activate this trouble circuit. Trouble signal shall be acknowledged by operating "TRBL ACK" button. This shall silence sounder. If subsequent trouble conditions occur, trouble circuitry shall resound. During alarm, all trouble signals shall be suppressed with exception of lighting yellow "TROUBLE" LED.
 10. Drift Compensation – Analog Smoke Sensors: System software shall automatically adjust each analog smoke sensor approximately once each week for changes in sensitivity due to effects of component aging or environment, including dust. Each sensor shall maintain its actual sensitivity under adverse conditions to respond to alarm conditions while ignoring factors which generally contribute to nuisance alarms. System trouble circuitry shall activate, display units that requires maintenance.
 11. Analog Smoke Sensor Test: System software shall automatically test each analog smoke sensor a minimum of 3 times daily. Test shall be recognized functional test of each photocell (analog photoelectric sensors) and ionization chamber (analog ionization sensors) as required annually by NFPA 72. Failure of sensor shall activate system trouble circuitry, display "Test Failed" indication, and identify individual device that failed.
 12. Network Annunciator Option: Each LCD-SLP and associated display shall provide option of being configured as network annunciator. Options for annunciation shall default as regional annunciator with capability of selecting global annunciation to provide system-wide protection and Acknowledge, Silence, and Reset capabilities.
 13. Redundant History Log: Each SLP shall contain full 4100 event history log supporting local and network functions. If a main processor or network node is lost the entire log shall be accessible at any other Loop Interface board. This shall be demonstrated by removing power from Command Center followed by extraction of history log from any loop driver location, including Command Center or Transponder.
 14. LEDs Indicator and Outputs: Each SLP Intelligent Small Addressable Panel shall incorporate as a minimum the following diagnostic LED indicators:
 - a. Power: Green.
 - b. Alarm: Red.
 - c. Supervisory: Yellow.
 - d. General Trouble: Yellow.
 - e. Ground Fault: Yellow.

- f. Hazard: Blue.
 - g. Municipal: Yellow.
 - h. NAC1: Yellow.
 - i. NAC2: Yellow.
 - j. NAC3: Yellow.
 - k. NAC4: Yellow.
15. Auxiliary Power Outputs: Each SLP Intelligent Small Addressable Panel shall provide the following supply outputs:
 - a. 24 VDC non-resettable, 1 amp. maximum, power limited.
 - b. 24 VDC resettable, 1 amp. maximum, power limited.
 16. Microprocessor: Loop interface shall incorporate 32-bit RISC processor. Isolated "watchdog" circuit shall monitor microprocessor and upon failure shall activate system trouble circuits on display. Microprocessor shall access system program for all control-by-event (CBE) functions. System program shall not be lost upon failure of both primary and secondary power. Programming shall support Boolean logic including AND, OR, NOT, TIME DELAY functions for maximum flexibility.
 17. Auto Programming: System shall provide for all SLC devices on any SLC loop to be pre-programmed into system. Upon activation of auto programming, only devices that are present shall activate. This allows for system to be commissioned in phases without need of additional downloads.
 18. Environmental Drift Compensation: System shall provide for setting Environmental Drift Compensation by device. When detector accumulates dust in chamber and reaches unacceptable level but yet still below allowed limit, control panel shall indicate maintenance alert warning. When detector accumulates dust in chamber above allowed limit, control panel shall indicate maintenance urgent warning.
 19. NON-FIRE Alarm Module Reporting: Non-reporting type ID shall be available for use for energy management or other non-fire situations. NON-FIRE point operation shall not affect control panel operation nor shall it display message at panel LDC. Activation of NON-FIRE point shall activate control by event logic, but shall not cause indication on control panel.
 20. 1-Man Walk Test:
 - a. System shall provide both basic and advanced walk test for testing entire fire alarm system. Basic walk test shall allow single operator to run audible tests on panel. All logic equation automation shall be suspended during test and while annunciators can be enabled for test, all shall default to disabled state. During advanced walk test, field-supplied output point programming shall react to input stimuli, such as CBE and logic equations. When points are activated in advanced test mode, each initiating event shall latch input. Advanced test shall be audible and shall be used for pull station verification, magnet activated tests on input devices, input and output device, and wiring operation/verification.
 - b. Test feature is intended to provide for certain random spot testing of system and is not intended to comply with requirements of testing fire alarm systems in accordance with NFPA 72, as it is impossible to test all functions and verify items such as annunciation with only 1 person.
 21. Signaling Line Circuits: Each SLC-PM module shall provide communication with analog/addressable (initiation/control) devices via 2 signaling line circuits. Each signaling line circuit shall be capable of being wired Class B, Style 4 or Class A, Style 6. Circuits shall be capable of operating in NFPA Style 7 configuration when equipped with isolator modules between each module type device and isolator sensor bases. Unique 40-character identifier shall be available for each device.

- a. SLC-PM shall communicate with a maximum of 159 analog sensors and 159 addressable monitor/control devices. Devices shall be of the Velociti series with capability to poll 10 devices at a time with a maximum polling time of 2 seconds when both SLCs are fully loaded.
22. Notification Appliance Circuits: 4 Class B or 2 Class A independent NAC circuits shall be provided on the SLP panel, polarized and rated at 2 amperes DC per circuit, 6 amperes max from all circuits. Each NAC individually over-current protected and supervised for opens, grounds, and short circuits. They shall be capable of being wired Class B, Style Y or Class A, Style Z.
23. Alarm Dry Contacts: Provide alarm dry contacts (Form C) rated 2 amps at 30 VDC (resistive) and transfer whenever system alarm occurs.
24. Supervisory Dry Contacts: Provide supervisory dry contacts (Form C) rated 2 amps at 30 VDC (resistive) and transfer whenever system supervisory condition occurs.
25. Trouble Dry Contacts: Provide trouble dry contacts (Form C) rated 2 amps at 30 VDC (resistive) and transfer whenever system trouble occurs.
26. Positive Alarm Sequence (PAS): The system control panel shall be capable of setting any detector or sensor into Positive Alarm Sequence mode. Positive Alarm Sequence will operate in the following manner. Any alarms received from a device will activate an alarm at the control panel but will not execute any output functions (e.g. turning on the strobes or fire horns). The operator has 30 seconds to “acknowledge” the event or the system will activate a general alarm and sound all the fire horn and strobes. If the operator does acknowledge the vent within thirty (3) seconds, the panel will start a timer for 180 seconds (3 minutes) in which time the operator must find the device in alarm and reset the device. If the operator has not performed a reset within 180 seconds or a second device reports an alarm, the system will immediately sound the general alarm.

H. Addressable Node Expander (ANX):

1. Addressable Node Expander shall provide interconnection between the Fire Alarm Control Panel networks.
2. ANX-MR-FO (Addressable Node Expander Multi-Ring with Fiber Optic connectors) and ANX-MR-UTP (Addressable Node Expander Multi-Ring with Fiber Optic and Twisted Pair connectors) shall expand the S3 Series network from 64 nodes to 122 nodes. ANX-SR (Addressable Node Expander Single Ring) will function in single 64 node systems.

I. Network Repeater Module RPT-E3:

1. Intelligent Network Interface shall provide interconnection and protection of remote Control Panels. Repeater shall regenerate and condition token passing, 625 K baud signal between units. Repeater shall be available in wire, fiber, or wire/fiber configurations as determined by field conditions.
2. Interface shall have jumper to allow selection of ground detection of wiring when used in wire mode. Interface shall have integral LEDs to display current status of board.

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2.5 SUPPLEMENTAL NOTIFICATION APPLIANCE CIRCUIT

- A. Supplemental Notification Appliance Circuit shall be Model HPFF8 offering up to 8.0 amps (8.0 amps continuous) of regulated 24-volt power. HPFF shall include the following features:
1. Integral Charger: Charge up to 26.0 amp-hour batteries and support 60-hour standby.

2. 2 Input Triggers. Input trigger shall be Notification Appliance Circuit (from fire alarm control panel) or relay.
3. Surface-mount back box.
4. Ability to delay AC fail delay in accordance with applicable NFPA requirements.
5. Power limited circuitry in accordance with applicable UL standards.
6. Operates as sync follower or a sync generator

2.6 SYSTEM PERIPHERALS – SYSTEM SENSOR

A. SLC-PM Addressable Devices – General:

1. Provide address-setting means using rotary-decimal switches.
2. Use simple to install and maintain decade-type (numbered 0 to 15) address switches by using standard screwdriver to rotate 2 dials on device to set address. Devices which use binary address set via dipswitch packages, handheld device programmer, or other special tools for setting device address shall not be acceptable.
3. Detectors: Analog and addressable. Connect to fire alarm control panel's Signaling Line Circuits.
4. Addressable Thermal and Smoke Detectors: Provide 2 status LEDs. Both LEDs shall flash under normal conditions, indicating detector is operational and in regular communication with control panel, and both LEDs shall be placed into steady illumination by control panel, indicating alarm condition has been detected. If required, flashing mode operation of detector LEDs can be programmed off via fire control panel program.
5. Fire Alarm Control Panel: Permit detector sensitivity adjustment through field programming of system. Sensitivity can be automatically adjusted by panel on time-of-day basis.
6. Using software, detectors shall automatically compensate for dust accumulation and other slow environmental changes that may affect their performance. Detectors shall be listed by UL as meeting calibrated sensitivity test requirements of NFPA 72, Chapter 7.
7. Detectors shall be ceiling-mounted and shall include separate twist-lock base with tamper-proof feature.
8. Following bases and auxiliary functions shall be available:
 - a. Standard base with remote LED output.
 - b. Sounder base rated at 85 dBA minimum.
 - c. Intelligent Addressable Sounder base rated at 75 dBA minimum.
 - d. Form-C relay base rated 30 VDC, 2.0 A.
 - e. Isolator base.
9. Detectors shall provide test means whereby they will simulate alarm condition and report that condition to control panel. Such test shall be initiated at detector itself by activating magnetic switch or initiated remotely on command from control panel.
10. Detectors shall store internal identifying type code that control panel shall use to identify type of device (ION, PHOTO, THERMAL).

B. Intelligent Fire/Carbon Monoxide Detectors (MCS-COF) to be installed in Boiler Rooms:

1. The detector shall be comprised of four sensing elements, including a photoelectric (light-scattering) particulate sensor, an electrochemical CO sensor, a daylight-filtered infrared (IR) sensor and solid state thermal sensor(s) rated at 135°F (57.2°C). The device shall be able to indicate distinct smoke and heat alarms.
2. The advanced multi-criteria detection device shall include the ability to combine the signal of the photoelectric signal with other sensing elements in order to react quickly in the event of a fire situation. It shall also include the inherent ability to distinguish between a

fire condition and a nuisance alarm condition. The detector shall be capable of selecting the appropriate sensitivity levels based on the environment type (office, manufacturing, kitchen, etc.) in which it is installed, and then have the ability to automatically change the setting as the environment changes.

3. The CO detector component shall be capable of a functional gas test using a canned test agent to test the functionality of the CO sensing cell.
4. The detector shall indicate CO trouble conditions, including six months of sensor life remaining and sensor life has expired. The detector shall indicate a combined signal for any of the following: low chamber trouble, thermistor trouble, CO self test failure, IR self test failure, and freeze warning.

2.8 SYSTEM PERIPHERALS – S3 SERIES

A. Auxiliary Switch Module (ASM-16):

1. Each ASM-16 has 16 programmable push-button switches.
2. Each push-button switch has 3 associated status LEDs (red, yellow, and green), configurable to indicate any combination of functions.
3. Flexible switch configurations to allow auxiliary functions.
4. An insertable label to identify function of each switch and LEDs combination.
5. Provide capability to communicate with up to 16 ASM-16 modules locally, or up to 3,000 feet from the Control Panel.

B. LCD Display Annunciator:

1. Furnish and install as indicated on the Drawings a remote serial annunciator, Model LCD-7100. Annunciator shall provide 80-character display, which shall duplicate all information on basic system display, including any network nodes its host panel is annunciating, with exception of menus. Contain the following function keys:
 - a. Alarm Acknowledge.
 - b. Trouble Acknowledge.
 - c. Signal Silence.
 - d. System Reset/Lamp Test.
 - e. System Drill Test.
2. Key Lock: Enable switches only when placed in "ON" position, with exception of Trouble Acknowledge, which is used to silence local trouble audible sounder. Annunciator shall contain the following LEDs:
 - a. Alarm.
 - b. Supervisory.
 - c. System Trouble.
 - d. Power Fault.
 - e. System Silenced.
3. Mount on standard 3-gang surface or flush electrical box.
4. Each ILI-MB-E3/ILI95-MB-E3: Accommodate up to 5 remote LCD-7100 annunciators which shall be located up to 3,000 feet from control panel.

D. LCD-E3 Display Annunciator:

1. Furnish and install as indicated on the Drawings a remote serial annunciator, Model LCD-E3. Annunciator shall provide 80-character display, which shall duplicate all information

on basic system display, including any network nodes its host panel is annunciating, with exception of menus. Contain the following function keys:

- a. Alarm Acknowledge.
 - b. Trouble Acknowledge.
 - c. Signal Silence.
 - d. System Reset/Lamp Test.
 - e. Menu.
 - f. Backspace/Edit.
 - g. OK/Enter.
2. Key Lock: Enable switches only when placed in "ON" position, with exception of Trouble Acknowledge, which is used to silence local trouble audible sounder. Annunciator shall contain the following LEDs:
 - a. AC Power On.
 - b. Alarm.
 - c. Supervisory.
 - d. System Trouble.
 - e. Power Fault.
 - f. Ground Fault.
 - g. System Silenced.
 3. Mounts in E3 Cabinet A, Cabinet A2 which can be surface or semi-flush.
 4. Each SLP: Accommodate up to 5 remote LCD-7100 annunciators which shall be located up to 3,000 feet from control panel.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas and surfaces to receive fire alarm system.
 1. Notify Architect of conditions that would adversely affect installation or subsequent use.
 2. Do not begin installation until unacceptable conditions are corrected.

3.2 INSTALLATION

- A. Install fire alarm system in accordance with NFPA 72 2002, NFPA 70 2005, state and local codes, manufacturer's instructions, and as indicated on the Drawings.
- B. Conceal conduit, junction boxes, and conduit supports and hangers in finished areas. Conceal or expose conduit, junction boxes, and conduit supports and hangers in unfinished areas.
- C. Do not install smoke detectors before system programming and test period. If construction is ongoing during this period, take measures to protect smoke detectors from contamination and physical damage.
- D. Flush-mount fire detection and alarm system devices, control panels, and remote annunciators in finished areas. Flush-mount or surface-mount fire detection and alarm system devices, control panels, and remote annunciators in unfinished areas.
- E. Ensure manual stations are suitable for surface mounting or semi-flush mounting as indicated on the Drawings. Install not less than 42 inches, nor more than 48 inches, above finished floor measured to operating handle.

3.3 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Provide service of competent, factory-trained technician authorized by manufacturer to technically supervise and participate during pre-testing and acceptance testing of system.

- B. Testing:
 - 1. Conduct complete visual inspection of control panel connections and test wiring for short circuits, ground faults, continuity, and insulation before energizing cables and wires.
 - 2. Close each sprinkler system control valve and verify proper supervisory alarm at Control Panel.
 - 3. Verify activation of flow switches.
 - 4. Open initiating device circuits and verify that trouble signal actuates.
 - 5. Open signaling line circuits and verify that trouble signal actuates.
 - 6. Open and short notification appliance circuits and verify that trouble signal actuates.
 - 7. Ground initiating device circuits and verify response of trouble signals.
 - 8. Ground signaling line circuits and verify response of trouble signals.
 - 9. Ground notification appliance circuits and verify response of trouble signals.
 - 10. Check installation, supervision, and operation of intelligent smoke detectors.
 - 11. Introduce on system each of the alarm conditions that system is required to detect. Verify proper receipt and proper processing of signal at Control Panel and correct activation of control points.
 - 12. Consult manufacturer's manual to determine proper testing procedures when system is equipped with optional features. This is intended to address such items as verifying controls performed by individually addressed or grouped devices, sensitivity monitoring, verification functionality, and similar.

- C. Acceptance Testing:
 - 1. Before installation shall be considered completed and acceptable by AHJ, a complete test using as a minimum, the following scenarios shall be performed and witnessed by representative approved by Engineer. Monitoring company and/or fire department shall be notified before final test in accordance with local requirements.
 - 2. Contractor's job foreman, in presence of representative of manufacturer, representative of Owner, and fire department shall operate every installed device to verify proper operation and correct annunciation at control panel.
 - 3. Open signaling line circuits and notification appliance circuits in at least 2 locations to verify presence of supervision.
 - 4. Completely disconnect main Control Panel from rest of network. Activate initiating device. All control outputs supported by transponder SLC circuits shall operate under project programming mode. Default or degrade mode programming shall not be acceptable.
 - 5. When testing has been completed to satisfaction of both Contractor's job foreman and representatives of manufacturer and Owner, a notarized letter co-signed by each attesting to satisfactory completion of said testing shall be forwarded to Owner and fire department.
 - 6. Leave fire alarm system in proper working order and, without additional expense to Owner, replace defective materials and equipment provided within 3 years from date of final acceptance by the owner.

3.4 DEMONSTRATION

- A. Provide instruction as required for operating fire alarm system.
- B. Provide hands-on demonstrations of operation of fire alarm system components and functions.

END OF SECTION

SECTION 28 31 13

FIRE MONITORING GRAPHIC WORKSTATION

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. PC-based graphical facilities monitoring system.

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1.3 REFERENCES

- A. NFPA 70 - National Electrical Code (NEC).
- B. NFPA 72 - National Fire Alarm Code.
- C. UL 864 - Standard for Control Units and Accessories for Fire Alarm Systems.

1.4 SYSTEM DESCRIPTION

- A. Furnish and install a PC-Based Graphical Facilities Monitoring System. This system shall include:
 - 1. UL-listed application software and hardware complete and ready for operation, including:
 - a. 1 or more PC-based graphical workstations.
 - b. Input/output devices.
 - c. Network communications media.
 - d. Control equipment.
 - e. Auxiliary control devices.
 - f. Power supplies.
 - g. Wire/fiber optic media.
 - 2. The equipment shall be Underwriters Laboratories Listed per ANSI/UL Standard 864, 9th edition, and shall be installed per the National Fire Code, NFPA 72, unless otherwise specified.
 - 3. The system shall provide a supervised interface to Gamewell-FCI fire alarm control panels.
 - 4. The system shall support a variety of topologies and media and provide industry-standard open architecture transport layer protocol.
 - 5. The system shall connect to and interpret status change data transmitted from ports and provide graphic annunciation, control, history logging, and reporting, all via optional ANX-SR card.
 - 6. Proprietary network systems that cannot interface to existing addressable fire alarm systems at the facility or systems requiring use of "dry contact" or "voltage monitoring" interface are not acceptable.
 - 7. The system shall be electrically supervised and shall monitor the integrity of its conductors.

1.5 PERFORMANCE REQUIREMENTS

- A. The network shall interface and report individually monitored system's status via user-friendly graphical user interface (GUI) based software workstations.
- B. Software:
 - 1. The system shall operate under Microsoft Windows XP Professional.
 - 2. The system shall graphically represent each facility being monitored with floor plans and icons depicting actual locations of systems and sensors by means of GUI-Based software.
 - 3. The system shall contain a 1024 by 768 GUI display capable of showing large primary floor plan displays; key maps representative of the larger view of primary display and its relationship to facility being monitored; current operator; number of fire, supervisory, pre-alarm, trouble, and security events within the network; and outstanding and acknowledged events.
 - 4. The system shall permit automatic navigation to a screen containing an icon that represents a system or sensor in the event of off-normal condition.
 - 5. System/Sensor Icon: Shall indicate the type of off-normal condition and flash and change to the color associated with the off-normal condition (e.g., RED for ALARM and YELLOW for TROUBLE).
 - 6. It shall allow the attachment of text (TXT) files, sound (WAV) files, image (BMP) files, and video (AVI) files to each system or sensor icon allowing additional information to be provided to the system operator for responding to off-normal condition.
 - 7. The system shall allow importation of externally developed floor plans in Windows Metafile (WMF), JPEG (JPG), Graphics Interchange Format (GIF), and Bitmap (BMP) format.
 - 8. Provide auto-navigation to the screen containing the icon of the system or sensor when the event is initially annunciated. It shall accomplish operator navigation to screens containing outstanding events by "clicking on" the event from either the acknowledged or unacknowledged event.
- C. Printing:
 - 1. Workstation: Shall support the graphic printing of data, including graphical floor plans, system activity, history, and guidance text.
 - 2. The system shall support a Windows-Compatible Printer to support graphics and report printer options.
- D. History Manager shall:
 - 1. Include a History Manager as part of the software to record system events with time and date stamp and current system operator's name.
 - 2. Store off-normal events experienced by sub-systems monitored by the system.
 - 3. Record events with a time and date stamp.
 - 4. Provide the system operator with the ability to log pre-defined response or custom comment for each off-normal event and have that comment stored in the history file with time, date, and operator name.
 - 5. Conduct searches and generate subsequent reports, based on events for single system/device address, specific node, specific type of off-normal condition, and date range (mm/dd/yy to mm/dd/yy) or combinations of these search parameters.
 - 6. Display the number of entries in the history file that match determined search criteria.
 - 7. Signal the need to back-up the history file at 100,000 events and remind the operator at intervals of 100 events thereafter.
 - 8. Pre-select data fields for reporting and save report as template with file name.
 - 9. Schedule the pre-defined report to print at a designated time.

E. Alarm Monitoring shall:

1. Provide for continuous monitoring of off-normal conditions, regardless of current activity displayed on screen.
2. If operator is viewing the history of the sub-system and an alarm condition occurs, the system shall automatically navigate to a graphic screen showing the area where the off-normal event is occurring.
3. Prioritize off-normal events, as defined by UL, into the following categories:
 - a. Fire alarm.
 - b. Trouble.
 - c. Supervisory.
 - d. Pre-alarm.
4. Display a running count of events by type in the alarm event counter window. The event counter window shall include 5 counters, defaulted to Alarm, Trouble, and Supervisory events.
5. Show a running list of unacknowledged and acknowledged events and allow the system operator to acknowledge an event by "double-clicking" on that event in the unacknowledged events box. Unacknowledged and acknowledged events boxes shall contain abbreviated descriptions of the off-normal condition.
6. View details of the condition by selecting the event in the unacknowledged events box.
7. Allow attachment of user-definable text files, image files, and sound files to each device/system monitored to facilitate the operator's and response personnel's response to the off-normal condition.
8. Record events to the system's hard drive. It shall store a minimum of 100,000 events.

F. Reports and Logs shall:

1. Generate reports based on the system history.
2. Allow the system operator to enter custom comments up to 255 characters per event and have those comments recorded in the system's history file.

G. Boolean Logic:

1. Automated Event Response Application shall:
 - a. Automatically perform actions across the entire system based on network activity.
 - b. Allow event responses (actions) based on predefined user conditions using simplified Boolean logic.
2. It shall configure actions to be executed immediately or timed as required.
3. The system shall monitor and control Gamewell-FCI Model 7100, 7200, E3 Series, S3 Series and 600 Series fire alarm control panels.
4. The Workstation shall provide configuration utilities for monitoring and control profiles. The profiles shall be user definable for distribution of monitoring and control allowances for operators per workstation.
5. Subsystems shall not be required to rely on a network for data processing required to perform its particular function. Each individual subsystem shall "stand-alone" to ensure its continued operation should disruption in communication with the system be experienced.

H. Security:

1. Software shall be:
 - a. Password protected.
 - b. Provide for definition of security profiles for the operator access control.
2. Provide the system administrator with means to select which signals can be controlled by a selected workstation.

1.6 SUBMITTALS

- A. Submittals shall comply with Section 01330 (01 33 00) - Submittal Procedures.
- B. Product Data: Submit the manufacturer's product data, including installation instructions.
- C. Shop Drawings:
 - 1. Submit the manufacturer's shop drawings, including plans, elevations, sections, and details.
 - 2. Wiring Diagrams: Shall indicate wiring for each item of equipment and interconnections between items of equipment.
 - 3. Shall include manufacturer's names, model numbers, ratings, power requirements, equipment layout, device arrangement, complete wiring point-to-point diagrams, and conduit layouts.
- D. Certifications:
 - 1. Submit manufacturer's certification indicating that proposed supervisor of the installation and proposed performer of contract maintenance are authorized representatives of the manufacturer and factory trained on the equipment contained in the submittal. Names and addresses shall be included in the certification.
 - 2. Provide NICET Level II certification documentation for factory-authorized field technicians performing field final connections and system programming.
- E. Operating and Installation Manuals:
 - 1. Submit manufacturer's operating and installation manual; including operation, maintenance, and adjustment instructions; trouble shooting guide; parts list; and electrical wiring diagrams.
 - 2. Provide detailed information required for the Owner to properly operate and maintain the equipment.
- F. Warranty: Submit manufacturer's standard warranty.

1.7 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: The manufacturer shall be an ISO 9001 certified company.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to the site in the manufacturer's original, unopened containers and packaging, with labels clearly identifying the product name and manufacturer.
- B. Storage: Store materials in a clean, dry area indoors in accordance with the manufacturer's instructions.
- C. Handling: Protect materials during handling and installation to prevent damage.

1.9 WARRANTY

- A. Warranty Period: Equipment shall be warranted for three year from date of acceptance.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Shall be Gamewell-FCI, 12 Clintonville Road, Northford, CT 06472. Phone (203) 484-7161. Website www.gamewell-fci.com <<http://www.gamewell-fci.com>>.
- B. Substitutions: Not permitted.

2.2 FIRE MONITORING GRAPHIC WORKSTATION

- A. The Graphic Workstation shall be the Gamewell-FCI "FocalPoint" Facility Monitoring System and shall meet the following requirements:
 - 1. Operation: IBM-compatible, UL-listed, Intel Pentium III processor, operating at a minimum of 800 MHz on the Microsoft Windows XP Professional platform.
 - 2. Components:
 - a. RAM: Minimum of 1 GB.
 - b. Hard Drive: Minimum of 20 GB of storage space.
 - c. Video RAM: Minimum of 8 MB.
 - d. CD-R/W: System backup.
 - e. Internal supervisory CPU watchdog board with audible annunciator.
 - f. 100 Base-T Ethernet NIC card.
 - g. Keyboard: 104 keys.
 - h. Pointing Device: Mouse.
 - 3. Network Connection:
 - a. Gateway Modules: Must be standard equipment that shall allow connection to the network it monitors.
Workstations: Must support Ethernet communications when multiple workstations are required.
 - 4. Monitor:
 - a. Workstation: Must support SVGA monitor.
 - b. 17-inch, flat-screen, LCD monitor.
 - 5. Computer: Must be capable of networking to additional computers and these computers shall be capable of operating as workstations and/or gateways for local-area or wide-area networks.
 - 6. Alarm Annunciation:
 - a. Shall appear on workstations.
 - b. Can be silenced at each local workstation.
 - c. Only 1 workstation and operator shall be in command of system for global alarm acknowledgement at any time.
- B. Integration Network:
 - 1. Shall monitor a minimum of 99 nodes on an integration gateway consisting of, but not limited to:
Analog addressable fire alarm control panels.
 - 2. The network shall accommodate up to 99 Gateways: Connect via Ethernet for total local area combination of up to 6,336 (99x64) nodes.
 - 3. Local-Area Networks shall feature:
 - a. Free topology network using twisted-pair copper media in a bus, star, T-tap, or ring style 7 configurations at 78 Kilo baud.
 - b. Transmit/receive twin fiber (multi-mode 62.5/125 μ m) strand FT-10 point-to-point

- topology and bi-directional FO-10 networks shall be available.
- c. Wide-Area Networks: Support by use of network expansion routers.
 - d. Free topology (FT-10 style) wire network run allows multiple T-taps within 1,500-foot (457.2-m) radius; 8,000-foot (2,438.4-m) point-to-point using twisted pair; or 6,000-foot (1828.8-m) bus topology.
 - e. Free topology (FT-10 style) fiber network can also use fiber-optic cabling. Operates at 78.5 Kbaud.
 - f. Fiber optic (FO-10 style) network shall allow bus or ring topology using only fiber-optic cable; node-to-node distance of over 10,000 feet (3,048 m) with message regeneration. FO-10 style operates at 1,250 Kbaud and utilizes multi-mode bidirectional fiber media (single-fiber strand) in bus or loop configuration.
4. Provide routers, repeaters, or bridges where required to increase distance, alter network configuration, or change media or to extend to remote facilities over alternate communications media, including UL-listed dial-up PSTN telephone, leased line, multimode fiber, or Ethernet connectivity.
 - a. Dial-Up Units: Shall dial a local number and stay connected. Upon loss of carrier, a supervisory alarm shall be indicated at the workstation and units shall automatically redial to connect.
 - b. Network Expansion Routers: Shall support public switched telephone circuits, 2-wire or 4-wire leased lines, and CAT5 Ethernet networks.
 5. Network Interface Software: Shall be by the same manufacturer as the hardware.
 6. Gateways:
 - a. Gateways shall be used to interface between the individual buildings' systems to be monitored by the integration network.
 - b. Shall act as a translator from the building system's specific panel communication protocol to integration network protocol and shall serve as a transceiver from the building system panel to the integration network.
 - c. Available in configurations that allow transparent communications via RS 232 serial data ports with analog addressable fire alarm control panels.
 - d. Shall be Listed per ANSI/UL 864.
 - e. Shall be provided with their own enclosures or available in chassis-mount configurations.
 - f. Shall operate at 24 VDC and obtain power from a monitored control panel or Listed auxiliary power supply with standby batteries.
 - g. Terminals: Shall be transient protected to 2,400 V.
 - h. LEDs: Shall indicate Status, service, and diagnostics.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas where the system is to be installed.
- B. Notify the Architect of conditions that would adversely affect the installation or subsequent use.
- C. Do not begin the installation until unacceptable conditions are corrected.

3.2 INSTALLATION

- A. General:
 1. Install the system in accordance with manufacturer's instructions at locations indicated on

the drawings.

2. Consult the manufacturer's installation manuals before beginning system installation.
3. Refer to the riser/connection diagram for specific system installation, termination, and wiring data.

B. Conduit and Wire:

1. Conduit: Shall be per NEC and state and local requirements.
2. Install wiring and fiber optics in conduit or raceway, where possible.
3. Separate cable from open conductors of power or Class 1 circuits, and do not place in conduit, junction box, or raceway containing these conductors, in accordance with NEC Article 760-29.
4. Provide circuits with transient suppression devices.
5. Permit simultaneous operation of all circuits without interference or loss of signals.
6. Do not allow conduit to enter control equipment or other remotely mounted control panel equipment or back boxes, except where conduit entry is specified by the FACP manufacturer.
7. Unless otherwise specified, ensure that the system wiring is new, and approved by the manufacturer for the intended communications.
8. Wiring and fiber optics: Shall be in accordance with national, state, and local codes; NEC Article 760; and as recommended by the fire alarm system manufacturer.
9. Number and size of conductors and fiber optics: As recommended by the FACP manufacturer.
10. Wire and Cable: Shall be Listed or approved by a Nationally Recognized Testing Laboratory for use with protective fire alarm signaling systems, except as otherwise specified.
11. Communication wire to nodes or computers: Shall be per minimum manufacturer's recommendations and approved wire specification for supporting speeds of 7.5 kbps nominal to 70 kbps maximum.

C. Terminal Boxes, Junction Boxes, and Cabinets:

1. Boxes and Cabinets: Shall be Listed for the purpose intended.
2. PC-Based Workstations:
 - a. Connect to a separate, dedicated branch circuit, maximum 20 amperes.
 - b. Circuit: Label at the main power distribution panel: "FACILITIES MONITORING SYSTEM".
 - c. PC Workstation Power Wiring: Shall be 12 AWG, grounded securely to either cold water pipe or grounding rod.
 - d. Provide Listed UPS system, where required.

3.3 SYSTEM SETUP AND CONFIGURATION

A. Provide the services of a factory-trained and authorized technician to perform system software modifications, upgrades, or changes.

1. Field Technicians: Must be at least NICET Level 1 or IMSA Interior Fire Alarm Level 1 certified.

B. Factory-Trained Technician: Shall install initial data and artwork at each workstation including:

1. Distribution of monitoring, control, and security profiles as requested by Owner.
2. Area diagrams, floor plans, key maps, and screen titles.
3. Auto-navigation criteria.
4. Guidance text as provided by Owner.

3.4 DEMONSTRATION AND TRAINING

- A. Demonstration:
 - 1. Demonstrate that the system functions properly in every respect.
 - 2. Perform a demonstration at the final system inspection by a factory-trained and certified representative of the manufacturer.

- B. Instruction and Training:
 - 1. Provide instruction and training of the Owner's personnel as required for operation and maintenance of system.
 - 2. Provide hands-on demonstrations of operation of system components and the complete system, including user-level program changes and functions.
 - 3. Provide instruction and training by a factory-trained and certified representative of the manufacturer.

3.5 PROTECTION

- A. Protect the installed system from damage during construction.

END OF SECTION

**SECTION 01 10 00
SUPPLEMENTAL
GENERAL
REQUIREMENTS**

1.01 RELATED DOCUMENTS:

- A. The project Bid Package including but not limited to the following apply to this Section:
 - 1. Instructions to Bidders
 - 2. General Conditions
 - 3. Security Regulations for Contract Forces

1.02 PROJECT OVERVIEW:

Install a new intelligent reporting, Style 7 networked, fully peer-to-peer, microprocessor-controlled fire detection and notification system. It shall be installed in accordance with the specifications, and as indicated on the Drawings.

1.03 PROJECT CONDITIONS:

- A. It shall be the Contractor's responsibility to inspect the job site, become familiar with the existing security management system and associated subsystems and facility conditions under which the work shall be performed.
- B. A mandatory pre-bid meeting will be held at the job site. The minutes of this meeting will be distributed to all attendees and will constitute an addendum to these specifications.
- C. Contractor will be responsible Contractor will be responsible for installation and configuration of all equipment.
- D. The Contractor shall furnish, install, and deliver all equipment, software, components, material, and incidental accessories necessary to make this project complete and ready for turnkey operation, even if not particularly specified on drawings or specifications, and at no additional expense to the Department of Correction.

1.04 SCOPE OF WORK:

- A. Field examine and become familiar with the existing Fire alarm system with its associated equipment, equipment locations, equipment installation, power sources, functionality, all associated wiring and raceway infrastructure. It will be the contractors responsibility to provide a complete and operational system.

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- B. Prepare and submit engineering documents, project schedules and payment schedule of values as specified herein for approval.
- C. Procure all materials, equipment and software approved for installation.
- D. Develop all software applications.
- E. Fabricate custom mounting panels and brackets.
- F. Coordinate all field work with the DOC site representative prior to commencing any field work.
- G. Prepare and submit as-built documentation for approval as specified.
- H. Provide system warranty as specified.

1.05 DOC PROJECT MANAGER/ENGINEER:

- A. The Project Manager/Engineer is PFE 1 Rick Hamel of
The Connecticut Department of Correction
Facility Management and Engineering Unit
24 Wolcott Hill Road
Wethersfield, CT 06109
Tel: 860-451-3486 Fax: 860-739-2297
e-mail: Richard.Hamel@ct.gov
- B. The DOC Project Manager/Engineer is referred to in the Contract Documents as " Engineer " or the "Project Manager". As an authorized representative of the Department of Correction, the DOC Manager/Engineer's function is defined as follows:
 - 1. The DOC Manager/Engineer shall not make monetary contract changes directly with the Contractor. The DOC Fiscal Administrator shall communicate all monetary contract changes in writing.
 - 2. The DOC Manager/Engineer is responsible for the review and acceptance of Shop Drawings, materials, and

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equipment intended for completing project objectives in accordance with the contract documents.

3. The DOC Manager/Engineer is responsible for acceptance of completed work that is in conformance with the Contract Documents and for authorizing payment according to the schedule defined in this Section.
4. The DOC Manager/Engineer shall have the authority to stop any work not in conformance with the Contract Documents. All such detected work shall be repaired or replaced at the DOC Manager/Engineer's discretion and at the contractor's expense.

1.06 SITE REPRESENTATIVE:

- A. The DOC Site Representative is Correctional Maintenance Supervisor Jay Ventura 860-848-5728. As an authorized representative of the Department of Correction, all construction activities shall be coordinated with the DOC site representative including the following:
 1. Request for security clearance.
 2. Request for escorts.
 3. Construction issues as they relate to the building.

1.07 TECHNICAL DOCUMENTS:

- A. Floor plan drawings of the existing facility are provided to familiarize the contractor with the facility.
- B. Drawings and supplemental documentation are available for review by bidders per the project "Bid Package" at DOC Central Office, 24 Wolcott Hill Road, Wethersfield, CT 06109. Review is by appointment to avoid delays in accessing documents. Contact the DOC Fiscal Administrator to schedule an appointment.
- C. All copies of project drawings and technical documentation are confidential and remain the property of the Department of Correction. Drawings and documentation are to be used only for the sole purpose of this project.
- D. A complete set of technical documents will be provided to the selected contractor when the contract is awarded.

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1.08 PRE-BID CONFERENCE:

- A. There will be a mandatory pre-bid meeting to be held at the Corrigan CC, 986 Norwich-New London Tpke., Uncasville, CT 06382 at a time and date specified in the project "Bid Package".

1.09 DEFINITIONS:

- A. Furnish - "Supply and deliver to the project site, ready for unloading, unpacking, assembly, installation and similar operations".
- B. Install - "Operations at the project site including unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning and similar operations".
- C. Provide - "To furnish and install, complete and operational or ready for the intended operation".

1.10 CODES AND STANDARDS:

All work shall comply with current applicable state and federal codes and industry standards including, but not limited to:

- A. Connecticut State Fire Safety Code and Supplement
- B. Connecticut State Building Code and Supplement
- C. Department of Environmental Protection Regulations
- D. Connecticut Labor Department Occupational Safety and Health Administration (OSHA) Requirements
- E. Americans with Disabilities Act (ADA)
- F. DOC Administrative Directives
- G. National Fire Protection Association
- H. Department of Public Health Regulations
- I. Connecticut and Federal Historical Site Requirements
- J. DPW Policies and Procedures
- K. ANSI- American National Standards Institute

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1.11 SPECIFICATIONS, CODES AND STANDARDS DIFFERENCES:

- A. When the methods of installation defined in the contract documents or the stated codes and standards are different, overlap or that are in conflict with one another the following procedure shall be used to resolve the matter.
 - 1. The contractor shall bring it to the attention of the DOC Project Manager/Engineer in writing.
 - 2. The DOC Project Manager/Engineer shall inform the contractor in writing which method shall be used.
 - 3. The DOC Project Manager/Engineer reserves the right to have the contractor correct any installation method not found to be in the best interest of the Department of Correction when this procedure is not adhered to. Any correction shall be made at no cost to the Department of Correction.

1.12 SUBMITTALS:

- A. Submit for DOC approval prior to starting work or procuring of specified materials and or equipment all Submittals requested in the contract document including but not limited to product information, drawings, installation methods etc. in the specified format.
- B. Review and coordinate all submittal documentation requested in the contract document for application continuity.
- C. The submittal cover sheet shall include the following information:
 - 1. DOC Project Name and Number
 - 2. Facility Name & Location
 - 3. Agency (name, address, phone number)
 - 4. Sub-Contractor (name, address, phone number, e-mail address)
 - 5. General Contractor (name, address, phone number, e-mail address)
 - 6. Project Supervisors (general and sub-contractor)
- D. Provide four (4) copies of documentation in paper format and one (1) copy in electronic file format on compact disk media as follows:

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- | | |
|----------------------|---------------------------------|
| 1. Drawings- | AutoCAD 2007 (.dwg) |
| 2. Spreadsheets- | Microsoft Excel 2003 (.xls) |
| 3. Product Data- | Portable Document Format (.pdf) |
| 4. Manuals- | Portable Document Format (.pdf) |
| 5. Custom Documents- | Microsoft Word 2003 (.doc) |

- E. Drawings shall conform to the following:
1. Size shall be 24"x36"
 2. Media shall be minimum 24# white media
 3. Title block shall include DOC job title, DOC project number, drawing description, contractor name and contact information, scale and drawing date.
 4. Scale shall be a minimum of 1"=50' for site drawings, 3/16" = 1' for floor plan views, 3/4"=1' for details.
 5. Plotted text shall be no less than 1/16" high and a height to width ratio of .8
- F. Paper copy submittal shall be presented in maximum of 3" three ring binder(s) complete with cover sheet, table of contents and submittal data.
- G. Submittals shall be arranged by each specification section.

1.13 CLOSE OUT DOCUMENTS:

- A. Prior to final payment the Contractor shall submit to the DOC Engineer four identical Operation and Maintenance manuals.
- B. Manuals shall be in a three ring binder subdivided into separate sections with tab dividers to identify subsystems and related documents for the installed system(s) here in specified.
- C. Drawings shall be folded and inserted in three ring binder sleeves.
- D. The cover of the manual and manual cover sheet shall include the following information:
1. DOC Project Name and Number
 2. Facility Name & Location
 3. Agency (name, address, phone number)
 4. Sub-Contractor (name, address, phone number, e-mail address)
 5. General Contractor (name, address, phone number, e-mail address)
 6. Project Supervisors (general and sub-contractor)

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7. Date of Project Completion
- E. Maintenance documents to include as a minimum the documentation as described in this section.
1. Cover Sheet
 2. Manual Index
 3. Warranty statement
 4. As built submittal documentation.
 5. As built (record) drawings
 6. Contractor certified test results per specification section
- F. Provide one (1) copy of Operations and Maintenance manual in electronic file format on compact disk media as follows:
1. Drawings- AutoCAD 2007 (.dwg)
 2. Spreadsheets- Microsoft Excel 2003 (.xls)
 3. Product Data- Portable Document Format (.pdf)
 4. Manuals- Portable Document Format (.pdf)
 5. Custom Documents- Microsoft Word 2003 (.doc)
- G. Paper copy close out shall be presented in maximum of 3” three ring binder(s) complete with cover sheet, table of contents and close out documents.

1.14 SCHEDULE OF VALUES:

- A. Upon award of the Contract, the Contractor shall submit to the DOC Project Manager, for approval, a Schedule of Values, which breaks down the contract price by each Section of the specification.

1.15 PROJECT MEETINGS:

- A. The Contractor shall schedule all project meetings with the following individuals:
1. DOC Project Manager/Engineer,
Richard Hamel 860-451-3486
 2. DOC Site Representative,
Jay Ventura 860-848-5728
- B. Pre-Construction meeting:
1. The DOC Project Manager shall schedule a Pre-Construction meeting per Section IB-1.15 so that it takes

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place no more than three weeks following the contract award.

2. The meeting agenda shall include but not be limited to the following:
 - a) Introduce DOC staff to the contractor.
 - b) Contractor to present any questions regarding site logistics and work coordination issues.
 - c) Contractor to present initial project schedule including task milestones and schedule of values.
 - d) Any other matters deemed appropriate to either the contractor or the DOC related to this project.

C. Site Coordination meeting:

1. The contractor shall schedule the Site Coordination meeting not less than one week prior to commencing field construction.
2. The Contractor shall come prepared with:
 - a) Approved project submittals.
 - b) Security clearances for all employees that will be working on site.
 - c) Approved field construction schedule.

D. Progress meeting:

1. The DOC Engineer will hold, on this work site, weekly job progress meetings with the contractor. The purpose of these meetings will be to provide the Engineer with project status up-dates and to allow the contractor the opportunity to discuss the project work and issues, which could affect the project schedule.

E. All questions or requests for clarification of the contract bid documents shall be handled according to the Instructions to Bidders.

1.16 SITE VISITS:

The DOC Manager/Engineer will visit the site to inspect and review the progress of the contractor's work.

- A. Site visit intervals shall be at the discretion of the DOC Manager/Engineer.

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- B. Site visits shall be scheduled with the contractor when a contractor representative is required.
- C. The contractor shall provide a representative who is thoroughly familiar with the project and authority to make on site decisions.
- D. The contractor should anticipate providing a representative for a maximum of eight site visits.

1.17 DELIVERY, STORAGE, AND HANDLING:

- A. The Contractor shall be responsible for all receiving, handling, and storage of his materials at the job site. Use of loading docks, service driveways, and freight elevators shall be coordinated with the DOC Site Representative.
- B. The DOC Site Representative will provide the Contractor with a lockable storage room for the Contractor's use during this project. The Contractor shall be responsible for the security of this space/room.
- C. Overnight storage of materials is limited to the assigned storage area. Materials brought to the work area shall be installed the same day, or returned to the assigned storage area unless previously approved by the DOC Site Representative.

1.18 RECORD DOCUMENTS:

- A. **General:**
Do not use record documents for construction purposes. Protect Record Documents from deterioration and loss in a secure, fire-resistant location. Provide access to record documents for the DOC Engineer's reference during normal working hours. Keep record documents current and do not permanently conceal any work until required information has been recorded. Failure to keep documents current is sufficient cause to withhold progress payments.
- B. **Record Drawings:**
The Contractor shall maintain one clean, complete undamaged set of Contract Drawings and Shop Drawings. Mark the set to show the actual installation where the installation varies substantially from the Work as originally shown. Mark which drawing is most capable of showing conditions fully and accurately. Where Shop Drawings are used, record a cross-reference at the corresponding location on the Contract

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Drawings. Give particular attention to concealed elements, which would be difficult to measure and record at a later date.

- C. Mark record sets with erasable pencil to distinguish between variations in separate categories of the Work.
- D. Mark all new information that is not shown on Contract Drawings.
- E. Note related change-order numbers where applicable.
- F. Organize record drawing sheets into manageable sets. Bind sets with durable-paper cover sheets; print suitable titles, dates, and other identification on the cover of each set.
- G. Upon completion of the work, the Contractor shall submit as built Record Drawings to the DOC Engineer for the Owner's Records.

1.19 SOFTWARE

- A. All specified application software shall be licensed to the Department of Correction and registered as follows:
 - State of Connecticut
 - Department of Correction
 - Director of Facilities Management and Engineering Unit
 - 24 Wolcott Hill Road
 - Wethersfield, CT 06109
 - 860-692-7555

END OF SECTION 01 10 00

EXHIBIT A

BID# 15DOC0500AA Corrigan Fire Alarm Project # BI-DC-517

The contractor who is selected to perform this State project must file and receive an approved Affirmative Action Plan by the Commission on Human Rights and Opportunities prior to the commencement of construction.

The contractor shall be required to make best good faith efforts to place not less than twenty-five (25%) percent of cost, to subcontracts to be awarded by the general contractor with eligible contractors holding current certification from the Connecticut Department of Administrative Services ("DAS") under the provisions of Connecticut General Statutes Section 4a-60g, all contemplated and provided for therein. Reference is hereby made to the DAS website, www.biznet.ct.gov/disabi. (25% of the work with DAS certified Small and Minority owned business(s) and of that work, 25% subcontracted with DAS certified Minority, Women and/or disabled owned business(s).)

SCOPE OF WORK

The Department of Corrections is soliciting bids for a Fire Alarm System at Corrigan Correction Institution according to the Department of Corrections Specifications attached.

PRE-BID CONFERENCE MEETING

All potential bidders are required to attend a MANDATORY PRE-BID Meeting to be held at the Corrigan CC, at 986 Norwich-New London Tpke, Uncasville, CT 06382 on *Wednesday July 16, 2014, at 9:00 am*. Directions can be located on the Department of Correction Website or Contact: Richard.Hamel, PFE1 at (860)451-3486. Please email your confirmation of attendance to Kathy.Woodward@ct.gov by July 14, 2014, for security clearance purposes include the names and birth dates of all attendees.

QUESTIONS

Questions for the purpose of clarifying the RFP must be submitted in writing to Kathy.Woodward@ct.gov and must be received in Procurement Services no later than 2:00PM July 18, 2014.

BID OPENING DATE

July 25, 2014 2:00 PM (Friday)

BID PRICES

All rates shall be firm and prices shall be net including all delivery and transportation charges fully prepaid by the contractor, F.O.B. Destination.

HOURS OF OPERATION

The Department of Corrections facilities operate on a continual 24 hour basis, 365 days per year. Work shall take place Monday through Friday, during normal business hours of 7:00 a.m. to 3:00 pm, excluding state holidays.

SECURITY REGULATIONS

All persons entering a correctional facility are required to comply with the Department's Security Regulation Requirements. (See Attachment entitled "Security Regulations").

SECURITY CLEARANCE

Upon award of contract, Contractor(s) are required to provide a completed "**Collect Background Report**" form for all technicians to be assigned to and/or request admittance to any of the agency's facilities.

DOC will provide a written security clearance confirmation list for individuals that have been security cleared. No technician will be granted admittance to any facility without proper clearance. Technicians are advised to carry a copy of their authorized security clearance confirmation with them at all times. Any changes in personnel must be security cleared at least **10 business days** in advance of requested admittance.

Questions relating to the Collect Background Report Form should be directed to Sharon Urso by e-mail at address Sharon.Urso@ct.gov. Completed and signed forms should be faxed to secure fax number 860-692-7755.

BILLING REQUIREMENTS

All contractor invoicing must contain:

- 1) **Purchase Order No**
- 2) Date of Service
- 3) Location of Service
- 4) Description of Work performed
- 5) Be Itemized by Service Rate, Labor Hours and/or Labor Rate (as applicable)
- 6) Be Itemized by Part Number and Part Unit pricing (if applicable)
- 7) A legible copy of the signed service report must accompany invoicing.

PAYMENT TERMS

The State payment terms are Net 45 following delivery and/or service completion.

DEPARTMENT OF CORRECTION PURCHASING ADDRESS

Questions regarding purchase orders from the Department of Correction should be directed to Kathy Woodward at telephone number (860) 692-7849.

State of CT - Department of Correction
Attn: Purchasing Dept – Kathy Woodward
24 Wolcott Hill Road
Wethersfield, CT 06109
e-mail: Kathy.Woodward@ct.gov

DEPARTMENT OF CORRECTION PAYMENT ADDRESS

Payment and invoicing inquiries relating to DOC should be sent to the Accounts Payable Unit at telephone number (860) 692-7800. Invoices should be sent to the following address:

State of CT - Department of Correction
Attn: Accounts Payable
P.O. Box 290891
Wethersfield, CT 06129-0891

ADDRESS AND BUSINESS CHANGES

In the event that the awarded contractor moves, changes telephone number, or changes business name, it is the contractor's responsibility to advise the Department of Correction of such changes in writing. The State will not be held responsible for payments or purchase orders which are delayed due to additional routing caused by the lack of notification on the contractor's part.

**STATE OF CONNECTICUT
DEPARTMENT OF CORRECTION
PURCHASING DEPARTMENT
24 Wolcott Hill Road
Wethersfield, CT 06109**

BID PROPOSAL

Bid No: 15DOC0500AA	Bid Opening Date: July 25, 2014	Bid Opening Time: 2:00 PM
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Note: Bidder means Individual/ Sole Proprietor, Partnership or Corporation name.

IMPORTANT: Both pages of this form, Sections 1 through 3 must be completed, signed and returned by the bidder as part of the bid package. Failure to submit both pages constitutes grounds for rejection of your bid.

Section 1 of 3 - **BIDDER INFORMATION**

COMPLETE BIDDER NAME (TRADE NAME, DOING BUSINESS AS)		SSN OR FEIN NUMBER
BIDDER ADDRESS	STREET	CITY STATE ZIP CODE
CONTACT NAME (TYPED OR PRINTED)	PHONE NUMBER (INCLUDE TOLL-FREE NUMBERS)	FAX NUMBER
SIGNATURE OF PERSON AUTHORIZED TO SIGN BIDS ON BEHALF OF THE ABOVE NAMED BIDDER		DATE
TYPE OR PRINT NAME OF AUTHORIZED PERSON		TITLE OF AUTHORIZED PERSON
BIDDER E-MAIL ADDRESS		BIDDER WEB SITE
IS YOUR BUSINESS A: <input type="checkbox"/> PROPRIETORSHIP (INDIVIDUAL) <input type="checkbox"/> PARTNERSHIP OR <input type="checkbox"/> CORPORATION? (TYPE OF CORPORATION - _____)		
IS YOUR BUSINESS CURRENTLY A DAS <i>CERTIFIED</i> SMALL BUSINESS ENTERPRISE? <input type="checkbox"/> YES (ATTACH CERTIFICATE COPY TO BID) <input type="checkbox"/> NO		
IF YOUR BUSINESS IS A PARTNERSHIP , YOU MUST ATTACH THE NAMES AND TITLES OF ALL PARTNERS TO THIS BID WHEN RETURNED.		
IF YOUR BUSINESS IS A CORPORATION , IN WHICH STATE ARE YOU INCORPORATED?		
IS YOU ARE A STATE EMPLOYEE , INDICATE YOUR POSITION, AGENCY NAME & ADDRESS:		
IS YOUR BUSINESS REPORTABLE TO THE IRS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, A 1099/W2 WILL BE MAILED TO YOU AT YEAR-END.		
REMITTANCE INFORMATION: IN THIS BOX, INDICATE THE REMITTANCE ADDRESS OF YOUR BUSINESS IF DEFFERENT FROM ABOVE.		

BID PROPOSAL

Bid No: 15DOC0500AA

Section 2 of 3 - **IMPORTANT INFORMATION FOR BIDDERS**

AFFIRMATION OF BIDDER: The undersigned bidder affirms and declares:

1. That this proposal is executed and signed by said bidder with full knowledge and acceptance of the provisions of the STANDARD BID AND CONTRACT TERMS AND CONDITIONS (3 pages) of current issue and in effect on the date of bid issue. The form Standard Bid and Contract Terms and Conditions are made a part of the contract.
2. That should any part of this proposal be accepted in writing by the Department of Correction within thirty (30) calendar days from the date of bid opening unless an earlier date for acceptance is specified by bidder in proposal schedule, said bidder will furnish and deliver the commodities and/or service for which this proposal is made, in the quantities and at the prices bid, and in compliance with the provisions of the STANDARD BID AND CONTRACT TERMS AND CONDITIONS, SECURITY REGULATIONS AND PROPOSAL SCHEDULE. Should award of any part of this proposal be delayed beyond the period of thirty (30) days of an earlier date specified by the bidder in proposal schedule, such award shall be conditioned upon bidder's acceptance.
3. Acceptance of the conditions set forth herein, agreement in strict accordance therewith, and will furnish and deliver the commodities and/or services to the Department of Correction named in the PROPOSAL SCHEDULE at the prices bid therein.
4. **Should the Department of Correction determine that bidder has not completed Section 3 - Bidder Debarment and/or Suspension included as part of this document, then such determination may be just cause for disqualification from the evaluation of this bid.**

Section 3 of 3 - **BIDDER DEBARMENT AND/OR SUSPENSION**

The undersigned bidder further affirms and declares that neither the bidder and/or any company official nor any subcontractor to the bidder and/or any company official has received any notices of debarment and/or suspension from contracting with the State of Connecticut or the Federal Government.

Yes No

The undersigned bidder further affirms and declares that neither the bidder and/or any company official nor any subcontractor to the bidder and/or any company official has received any notices of debarment and/or suspension from contracting with other states within the United States.

Yes No

If the undersigned bidder and/or company official or any subcontractor to the bidder and/or any company official has received notices of debarment and/or suspension with the State of Connecticut, other states within the United States or Federal Government, said notices must be attached to this document when submitting this proposal.

Number of notices attached _____.

SIGNATURE OF AUTHORIZED PERSON IN SECTION 1, CONSTITUTES AGREEMENT WITH ALL PROCEDURES INDICATED ABOVE.

STATE OF CONNECTICUT DEPARTMENT OF CORRECTION

BIDDER'S CHECKLIST

THIS FORM IS NOT TO BE RETURNED WITH YOUR BID. HOWEVER, IT IS SUGGESTED THAT YOU REVIEW AND CHECK OFF EACH ACTION AS YOU COMPLETE IT.

- The Bid Proposal must be signed by a duly authorized representative of the company (unsigned bids are automatically rejected) and the **Price List SP - 16** must be included with your bid.
- The bid prices you have offered in **Price List SP - 16** have been reviewed and verified.
- The price extensions and totals have been checked. (In case of discrepancy between unit prices and total prices, the unit price will govern the bid evaluation).
- Any errors, alterations, corrections or erasures to unit prices, total prices, etc. must be initialed by the person who signs the bid proposal or his designee. Such change made and not initialed means automatic rejection of bid.
- The payment terms are NET 45 Days. Net Terms for periods less than 45 days (Ex. Net 30) may result in bid rejection. (You may offer cash discounts for prompt payment.) *Exception:* State of CT Small Business Set-Aside bids payment terms shall be in accordance with CGS 32-09h.
- Reference **Exhibit A** for any technical or descriptive literature, drawing or bid samples that are required have been included with the bid.
- The delivery information block has been completed. (Be specific: In most cases, "as ordered" or "as required" is not complete information.)
- Any addenda to the bid have been signed and included.
- **The Sealed bid must mailed, or hand-delivered** in time to be received no later than the designated opening date and time. Late bids are not accepted under any circumstances. Please allow enough time if mailing in your bid.
- Read, sign and return the Department of Correction's Security Regulations for Contract Forces form (2 pages) with your Bid Proposal.
- All CHRO forms (4 pages) must be completed entirely regardless of the number of employees, even if the company is family owned and/or operated and must be submitted with each bid or bid may be rejected.
- Complete, sign and notarize the OSHA CERTIFICATE OF COMPLIANCE form.
- Complete and sign the BIDDER'S STATEMENT OF QUALIFICATIONS.
- VENDOR NAME MUST APPEAR ON ALL BID DOCUMENTS.
- **VERIFY THE FOLLOWING FORMS ARE INCLUDED IN YOUR BID PACKAGE:**
 - BID PROPOSAL - 2 PAGES / COMPLETE AND SIGN
 - PRICE LIST SP/PROPOSAL TO BE DISCUSSED AT PRE_BID MEETING
 - BIDDER'S STATEMENT OF QUALIFICATIONS - 2 PAGES / COMPLETE AND SIGN
 - CHRO FORMS - 4 PAGES / COMPLETE AND SIGN
 - OSHA CERTIFICATE OF COMPLIANCE - COMPLETE, SIGN AND NOTARIZE
 - CERTIFICATE OF AUTHORITY – COMPLETE AND SIGN
 - NONDISCRIMINATION CERTIFICATION FORM A - FOR INDIVIDUALS
1 PAGE - COMPLETE AND SIGN - **OR**
NONDISCRIMINATION CERTIFICATION FORM B - FOR ENTITIES - 1 PAGE
 - GIFT AND CAMPAIGN CONTRIBUTION CERTIFICATION
 - BID ADDENDUM (IF APPLICABLE) – REVIEW & SIGN
 - CERTIFIED CORPORATE RESOLUTION – REVIEW
 - CONTRACTORS WAGE CERTIFICATION FORM

PRICE SCHEDULE SP-16		STATE OF CONNECTICUT Department of Correction			Bid No: 15DOC0500AA	
Buyer Name: Kathy Woodward		Exhibit B - Price Schedule			Bidder Name:	
Telephone No: 860-692-7849		Payment Terms are Net 45. Any Deviation may result in bid rejection. Bid Prices shall include all transportation charges FOB state agency.			SSN or FEIN No:	
Ship To Address: Cheshire CI, 900 Highland Ave, Cheshire, CT 06410					Terms:	Cash Discount: % Days
ITEM NO	DESCRIPTION OF COMMODITY AND/OR SERVICE	QTY	UNIT	UNIT PRICE	TOTAL PRICE	
1	Corrigan Fire Alarm System per CTDOC Specifications Project #BI-DC-517	Project Bid Price	JOB			
	Mandatory Pre-bid meeting: Corrigan CI Wednesday, 7/16/14 - 9:00 am					
	Late arrivals of more than 10 minutes will not be given credit for attendance					
	Unsigned price schedules will be disqualified.					
	Sealed Proposals are Due 7/25/2014 2:00 PM					
				Total \$		
DATE SUBMITTED:			BIDDER ADDRESS :			
AUTHORIZED SIGNATURE:			PRINTED NAME:		TITLE:	

STATE OF CONNECTICUT
COMMISSION ON
HUMAN RIGHTS AND OPPORTUNITIES (CHRO)
CHRO-4

Bid Number: 15DOC0500AA
Project #BI-DC-517

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CONTRACT COMPLIANCE REGULATIONS
NOTIFICATION TO BIDDERS

The contract to be awarded is subject to contract compliance requirements mandated by Sections 4a-60 and 4a-60a of the CONN. GEN. STAT.; and, when the awarding agency is the State, Sections 46a-71(d) and 46a-81i(d) of the CONN. GEN. STAT. There are Contract Compliance Regulations codified at Section 46a-68j-21 through 43 of the Regulations of Connecticut State Agencies which establish a procedure for the awarding of all contracts covered by Sections 4a-60 and 46a-71(d) of the CONN. GEN. STAT.

According to Section 46a-68j-30(9) of the Contract Compliance Regulations, every agency awarding a contract subject to the Contract Compliance Requirements has an obligation to “aggressively solicit the participation of legitimate minority business enterprises as bidders, contractors, subcontractors, and suppliers of materials.” “Minority business enterprise” is defined in Section 4a-60 of the CONN. GEN. STAT. as a business wherein fifty-one percent or more of the capital stock, or assets belong to a person or persons: “(1) Who are active in daily affairs of the enterprise; (2) who have the power to direct the management and policies of the enterprise; and (3) who are members of a minority, as such term is defined in subsection (a) of section 32-9n.” Minority groups are defined in section 32-9n of the CONN. GEN. STAT. as “(1) Black Americans... (2) Hispanic Americans... (3) persons who have origins in the Iberian Peninsula... (4) Women... (5) Asian Pacific American and Pacific Islanders; (6) American Indians...” A business owned by an individual(s) with a physical disability is also a minority business enterprise as provided by Section 32-9e of the CONN. GEN. STAT. The above definitions apply to the contract compliance requirements by virtue of Section 46a-68j-21(11) of the Contract Compliance

The awarding agency will consider the following factors when reviewing the bidder’s qualifications under the contract compliance requirements:

- (A) the bidder’s success in implementing an affirmative action plan;
- (B) the bidder’s success in developing an apprenticeship program complying with Sections 46a-68-1 to 46a-68-17 inclusive, of the Regulations of Connecticut State Agencies;
- (C) the bidder’s promise to develop and implement a successful affirmative action plan;
- (D) the bidder’s submission of EEO-1 data indicating that the composition of its workforce is at or near parity when compared to the racial and gender composition of the workforce in the relevant labor market area; and,
- (E) the bidder’s promise to set aside a portion of the contract for legitimate minority business enterprises. See Section 46a-68j-30(10)(E) of the Contract Compliance Regulations.

INSTRUCTIONS AND OTHER INFORMATION

The following two (2) sided BIDDER CONTRACT COMPLIANCE MONITORING REPORT must be completed in full, signed, and submitted with the bid for this contract.

The contract awarding agency and the Commission on Human Rights and Opportunities will use the information contained thereon to determine the bidder’s compliance to Sections 4a-60 and 4a-60a CONN. GEN. STAT., and Sections 46a-68j-23 of the Regulations of Connecticut State Agencies regarding equal employment opportunity, and the bidder’s “good faith efforts” to include minority business enterprises as subcontractors and suppliers for the work of the contract.

1) Definition of Small Contractor

Section 32-9e CONN. GEN. STAT. defines a small contractor as a company that has been doing business under the same management and control and has maintained its principal place of business in Connecticut for a one year period immediately prior to its application for certification under this section, had gross revenues not exceeding ten million dollars in the most recently completed fiscal year, and at least fifty-one percent of the ownership of which is held by a person or persons who are active in the daily affairs of the company, and have the power to direct the management and policies of the company, except that a non-profit corporation shall be construed to be a small contractor if such nonprofit corporation meets the requirements of subparagraphs (A) and (B) of subdivision 32-9e CONN. GEN. STAT.

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2) Description of Job Categories (as used in Part IV Bidder Employment Information)

Officials, Managers and Supervisors - Occupations requiring administrative personnel who set broad policies, exercise over-all responsibility for execution of these policies, and direct individual departments or special phases of a firm's operations. Includes officials, executives, middle management, plant managers, department managers, and superintendents, salaried forepersons who are members of management, purchasing agents and buyers, and kindred workers.

Professionals - Occupations requiring either college graduation or experience of such kind and amount as to provide a comparable background. Includes: accountants and auditors, airplane pilots and navigators, architects, artists, chemists, designers, dietitians, editors, engineers, lawyers, librarians, mathematicians, natural scientists, personnel and labor relations workers, physical scientists, physicians, social scientists, teachers, kindred workers.

Technicians - Occupations requiring a combination of basic scientific knowledge and manual skill which can be obtained through about 2 years of post high school education, such as is offered in technical institutes and junior colleges, or through equivalent on-the-job training. Includes: draftspersons, engineering aides, junior engineers, mathematical aides, nurses, photographers, radio operators, scientific assistants, surveyors, technical illustrators, technicians (medical, dental, electronic, physical sciences), and kindred workers.

Sales Workers - Occupations engaging wholly or primarily in direct selling. Includes: advertising agents and sales persons, insurance agents and brokers, real estate agents and brokers, stock and bond salespersons, demonstrators, sales people and sales clerks, and kindred workers.

Office and Clerical Workers - Includes all clerical type work regardless of level of difficulty, where the activities are predominantly non-manual though some manual work not directly involved with altering or transporting the products is included. Includes: bookkeepers, cashiers, collectors (bills and accounts), messengers and office workers, office machine and computer operators, shipping and receiving clerks, stenographers, typists and secretaries, telegraph and telephone operators, and kindred workers.

Skilled Workers - Manual workers of relatively high skill level having a thorough and comprehensive knowledge of the processes in their work. They exercise considerable independent judgment and usually receive an extensive period of training. Includes: building trades hourly paid forepersons and leadpersons who are not members of management, mechanics and repair people, skilled machining occupations, compositors and typesetters, electricians, engravers, job setters (metal), motion picture projectionists, pattern and model makers, stationary engineers, tailors, and kindred workers.

Semi-Skilled Workers - Workers who operate machine or processing equipment or perform other factory type duties of intermediate skill level which can be mastered in a few weeks and require only limited training.

Unskilled Workers - Workers in manual occupations which generally require no special training. Perform elementary duties that may be learned in a few days and require application of little or no independent judgment. Includes: garage laborers, car washers and greasers, gardeners (except farm) and grounds keepers, longshore persons and stevedores, wood cutters and choppers, laborers performing lifting, digging, mixing, loading, and pulling operations, and kindred workers.

Service Workers - Workers in both protective and non-protective service occupations. Includes: attendants (hospital and other institution, professional, and personal service), barbers, cleaning workers, cooks (except house-hold), counter and fountain workers, fire fighters, police officers and detectives, security workers and doorkeepers, stewards, janitors, porters, food servers and kindred workers.

Apprentices - Persons employed in a program including work training and related instruction to learn a trade or craft which is traditionally considered an apprenticeship, regardless of whether the program is registered with a state or federal agency.

Trainees - Persons engaged in a formal training for craft worker when not trained under an apprenticeship program. Includes: operatives, laborer and service occupations. Also includes persons engaged in formal training for official, managerial, professional, technical, sales, office, and clerical occupations.

3) Definition of Racial and Ethnic Terms (as used in Part IV Bidder Employment Information)

White (not of Hispanic Origin) - All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.

Black (not of Hispanic Origin) - All persons having origins in any of the Black racial groups of Africa.

Hispanic All persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

Asian or Pacific Islander All persons having origins in any of the original peoples of the Far East, Southeast Asia, Indian subcontinent or Pacific Islands. Includes China, India, Japan, Korea, Philippine Islands, & Samoa.

American Indian or Alaskan Native All persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.

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BIDDER CONTRACT COMPLIANCE MONITORING REPORT

PART I - Bidder Information

Company Name Street Address City & State Chief Executive	Bidder Federal Employer Identification Number (FEIN) or Social Security Number (SSN)
Major Business Activity (brief description)	Bidder Identification (response optional/definitions on page 1) -Is bidder a small contractor? <input type="checkbox"/> Yes <input type="checkbox"/> No -Is bidder a minority business enterprise? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, check ownership category <input type="checkbox"/> Black <input type="checkbox"/> Hispanic <input type="checkbox"/> Asian American <input type="checkbox"/> American Indian/Alaskan Native <input type="checkbox"/> Iberian Peninsula <input type="checkbox"/> Individual(s) with a Physical Disability <input type="checkbox"/> Female -Is bidder certified as above by the State of CT (DAS)? <input type="checkbox"/> Yes <input type="checkbox"/> No
Bidder Parent Company (if any)	
Other Locations in CT (if any)	

PART II - Bidder Non-Discrimination Policies & Procedures

1. Does your company have a written Equal Employment Opportunity statement posted on company bulletin boards? <input type="checkbox"/> Yes <input type="checkbox"/> No	7. Do all of your company contracts and purchase orders contain non-discrimination statements as required by Sections 4a-60 & 4a-60a of the Conn. Gen. Stat.? <input type="checkbox"/> Yes <input type="checkbox"/> No
2. Does your company have a written sexual harassment in the workplace policy posted on company bulletin boards? <input type="checkbox"/> Yes <input type="checkbox"/> No	8. Do you, upon request, provide reasonable accommodation to employees or applicants for employment who have physical or mental disability? <input type="checkbox"/> Yes <input type="checkbox"/> No
3. Do you notify all recruitment sources in writing of your company non-discrimination employment policy? <input type="checkbox"/> Yes <input type="checkbox"/> No	9. Does your company have a mandatory retirement age for all employees? <input type="checkbox"/> Yes <input type="checkbox"/> No
4. Do your company advertisements contain a written statement that you are an Equal Opportunity Employer? <input type="checkbox"/> Yes <input type="checkbox"/> No	10. If your company has 50 or more employees, have you provided at least two (2) hours of sexual harassment training to all of your supervisors? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
5. Do you notify the CT State Employment Service of all employment openings with your company? <input type="checkbox"/> Yes <input type="checkbox"/> No	11. If your company has apprenticeship programs, do they meet the equal opportunity requirements of the apprenticeship standards of the CT Dept. of Labor? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6. Does your company have a collective bargaining agreement with workers? <input type="checkbox"/> Yes <input type="checkbox"/> No 6a. If yes, do the collective bargaining agreements contain non-discrimination clauses covering all workers <input type="checkbox"/> Yes <input type="checkbox"/> No 6b. Have you notified each union, in writing, of your commitments under the non-discrimination requirements of contracts with the State of CT? <input type="checkbox"/> Yes <input type="checkbox"/> No	12. Does your company have a written affirmative action plan? <input type="checkbox"/> Yes <input type="checkbox"/> No 13. Is there a person in your company who is responsible for Equal Employment Opportunity? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide name and phone number.

PART III - Bidder Subcontracting Practices

1. Will the work of this contract include subcontractors or suppliers? <input type="checkbox"/> Yes <input type="checkbox"/> No 1a. If yes, list all the subcontractors and suppliers and report if they are a small contractor and/or a minority business enterprise (as defined on page 1). Attach additional sheets if necessary.
1b. Will the work of this contract require additional subcontractors or suppliers other than those identified in 1a. above? <input type="checkbox"/> Yes <input type="checkbox"/> No

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PART IV - Bidder Employment Information

JOB CATEGORY	OVERALL TOTALS	WHITE (NOT OF HISPANIC ORIGIN)		BLACK (NOT OF HISPANIC ORIGIN)		HISPANIC		ASIAN / PACIFIC ISLANDER		AMERICAN INDIAN OR ALASKAN NATIVE	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Officials/Managers											
Professionals											
Technicians											
Sales Workers											
Office/Clerical											
Craft Workers (Skilled)											
Laborers (Unskilled)											
Service Workers											
TOTALS ABOVE											
Total One Year Ago											
FORMAL ON-THE-JOB TRAINEES (ENTER FIGURES FOR THE SAME CATEGORIES AS ARE SHOWN ABOVE)											
Apprentices											
Trainees											

According to the above employment report, is the composition of your workforce at or near parity when compared with the racial and gender composition of the workforce in the relevant labor market area? Yes No

PART V - Bidder Hiring and Recruitment Practices

1. Which of the following recruitment sources are used by you? (Check yes or no, and report percentage used)				2. Check (✓) any of the requirements listed below that you use as a hiring qualification.		3. Describe below any other practices or actions that you take which show that you hire, train, and promote employees without discrimination.			
SOURCE	YES	NO	% of applicants provided by source	(✓)					
State Employment Service					Work Experience				
Private Employment Agencies					Ability to Speak or Write English				
Schools and Colleges					Written Tests				
Newspaper Advertisement					High School Diploma				
Walk Ins					College Degree				
Present Employees					Union Membership				
Minority/Community Organizations					Personal Recommendation				
Labor Organizations					Height or Weight				
Others (please identify)					Car Ownership				
					Arrest Record				
					Wage Garnishment				

Certification (Read this form and check your statements on it CAREFULLY before signing). I certify that the statements made by me on this BIDDER CONTRACT COMPLIANCE MONITORING REPORT are complete and true to the best of my knowledge and belief, and are made in good faith. I understand that if I knowingly make any misstatement of facts, I am subject to be declared in non-compliance with Section 4a-60, 4a-60a, and related sections of the CONN. GEN. STAT.

Signature	Title	Date Signed	Telephone
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STATE OF CONNECTICUT

BIDDER'S STATEMENT OF QUALIFICATIONS

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THIS FORM WILL BE USED IN ASSESSING A BIDDER'S QUALIFICATIONS AND TO DETERMINE IF THE BID SUBMITTED IS FROM A RESPONSIBLE BIDDER. STATE LAW DESIGNATES THAT CONTRACTS BE AWARDED TO THE LOWEST RESPONSIBLE QUALIFIED BIDDER. FACTORS SUCH AS PAST PERFORMANCE, INTEGRITY OF THE BIDDER, CONFORMITY TO THE SPECIFICATIONS, ETC. WILL BE USED IN EVALUATING BIDS. ATTACH ADDITIONAL SHEETS IF NECESSARY

COMPANY NAME: _____
&
ADDRESS: _____

NUMBER OF YEARS COMPANY HAS BEEN ENGAGED IN BUSINESS UNDER THIS NAME: _____ YEARS

LIST ANY CONTRACT AWARDS TO YOUR COMPANY BY THE STATE OF CONNECTICUT WITHIN THE LAST THREE (3) YEARS, **THAT YOU ACTUALLY PERFORMED SERVICE AGAINST**. INDICATE WHICH STATE AGENCY, AND PROVIDE CONTRACT NAME AND NUMBER, AND THE NAME AND TELEPHONE NUMBER OF THE PURCHASING AGENT ADMINISTERING THE CONTRACT.

<u>CONTRACT NO.</u>	<u>CONTRACT NAME</u>	<u>STATE AGENCY</u>	<u>PURCHASING AGENT</u>	<u>TEL. NO.</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

List any contract awards to your company by the State of Connecticut within the last three (3) years, **THAT YOUR COMPANY DID NOT PERFORM SERVICE AGAINST**. Indicate which State Agency, and provide contract Name and Number, and the name and telephone number of the purchasing agent administering the contract.

<u>CONTRACT NO.</u>	<u>CONTRACT NAME</u>	<u>STATE AGENCY</u>	<u>PURCHASING AGENT</u>	<u>TEL. NO.</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

LIST OTHER NAMES YOUR COMPANY GOES BY: _____

LIST PREVIOUS COMPANY NAME (S) _____

LIST AT LEAST THREE COMPLETED PROJECTS SIMILAR IN NATURE TO THIS **INVITATION FOR BIDS** WHICH DEMONSTRATES YOUR COMPANY'S ABILITY TO PERFORM THE REQUIRED SERVICES.

	<u>Company Name and Address</u>	<u>Telephone No.:</u>	<u>Dollar Value:</u>
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
	_____	_____	_____

STATE OF CONNECTICUT

BIDDER'S STATEMENT OF QUALIFICATIONS

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COMPANY NAME: _____

SIZE OF COMPANY
OR CORPORATION: NUMBER OF EMPLOYEES: FULL TIME _____ PART TIME _____

COMPANY VALUE: EQUIPMENT ASSETS _____ TOTAL ASSETS _____

IS YOUR COMPANY REGISTERED WITH THE OFFICE OF THE CONNECTICUT SECRETARY OF STATE? YES NO

REGISTRATION DATE, IF AVAILABLE: _____

IF REQUESTED, WOULD YOUR COMPANY PROVIDE A "GOOD STANDING" CERTIFICATE
ISSUED BY THE CONNECTICUT SECRETARY OF STATE'S OFFICE? YES NO

LIST OF EQUIPMENT TO BE USED FOR THIS SERVICE (INCLUDE MODEL, YEAR & MANUFACTURER):

<u>MODEL</u>	<u>YEAR</u>	<u>MANUFACTURER</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

(Attach additional sheets if necessary)

LIST ANY RELEVANT CERTIFICATIONS, LICENSES, REGISTRATIONS, ETC. WHICH QUALIFY YOUR COMPANY TO MEET THE REQUIREMENTS OF THIS BID.

(Attach additional sheets if necessary)

LIST ANY ADMINISTRATIVE ACTIONS EITHER PENDING REVIEW BY THE STATE OR DETERMINATIONS THAT THE STATE HAS MADE REGARDING YOUR COMPANY OR CORPORATION. THIS WOULD INCLUDE COURT JUDGEMENTS AND SUITS PENDING BY A STATE OR FEDERAL COURT. INCLUDE A LISTING OF OSHA VIOLATIONS AND ANY ACTIONS OR ORDERS PENDING OR RESOLVED WITH ANY STATE AGENCY SUCH AS THE DEPARTMENT OF CONSUMER PROTECTION, THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, ETC. DETAIL THIS INFORMATION ON A SEPARATE SHEET OF PAPER. SUCH INFORMATION SHOULD BE FOR THE LAST THREE (3) YEARS.

I HEREBY CERTIFY THAT ALL THE INFORMATION SUPPLIED IS COMPLETE AND TRUE.

SIGNATURE

DATE

TITLE

STATE OF CONNECTICUT
Certificate of Compliance with
Connecticut General Statute Section 31 - 57b

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I hereby certify that all of the statements herein contained below have been examined by me, and to the best of my knowledge and belief are true and correct.

The _____ **HAS / HAS NOT**
Company Name (Cross out Non-applicable)

been cited for three (3) or more willful or serious or serious violations of any Occupational Safety and Health Act (OSHA) or of any standard, order or regulation promulgated pursuant to such act, during the three year period preceding the bid, provided such violations were cited in accordance with the provisions of any State Occupational Safety and Health Act of 1970, and not abated within the time fixed by the citation and such citation has not been set aside following appeal to the appropriate agency of court having jurisdiction or **HAS / HAS NOT** (Cross out Non-applicable) received one or more criminal convictions related to the injury or death of any employee in the three-year period preceding the bid.

The list of violations (if applicable) is attached.

(Name of Firm, Organization or Corporation)

Signed:

Written Signature:

Name Typed: (Corporation Seal)

Title:

(Title of Above Person, typed)

Dated:

State of _____)

County of _____) **ss:** *A.D., 20* _____)

Sworn to and personally appeared before me for the above, _____,
(Name of Firm, Organization, Corporation)

Signer and Sealer of the foregoing instrument of and acknowledged the same to be the free act and deed of

_____, and his/her free act and deed as
(Name of Person appearing in front of Notary or Clerk)

(Title of Person appearing in front of Notary or Clerk)

My Commission Expires:

(Notary Public) (Seal)



STATE OF CONNECTICUT GIFT AND CAMPAIGN CONTRIBUTION CERTIFICATION

Written or electronic certification to accompany a State contract with a value of \$50,000 or more in a calendar or fiscal year, pursuant to C.G.S. §§ 4-250 and 4-252(c); Governor M. Jodi Rell's Executive Orders No. 1, Para. 8, and No. 7C, Para. 10; and C.G.S. §9-612(g)(2)

INSTRUCTIONS:

Complete all sections of the form. Attach additional pages, if necessary, to provide full disclosure about any lawful campaign contributions made to campaigns of candidates for statewide public office or the General Assembly, as described herein. Sign and date the form, under oath, in the presence of a Commissioner of the Superior Court or Notary Public. Submit the completed form to the awarding State agency at the time of initial contract execution and if there is a change in the information contained in the most recently filed certification, such person shall submit an updated certification either (i) not later than thirty (30) days after the effective date of such change or (ii) upon the submittal of any new bid or proposal for a contract, whichever is earlier. Such person shall also submit an accurate, updated certification not later than fourteen days after the twelve-month anniversary of the most recently filed certification or updated certification.

CHECK ONE: Initial Certification 12 Month Anniversary Update (Multi-year contracts only.)
 Updated Certification because of change of information contained in the most recently filed certification or twelve-month anniversary update.

GIFT CERTIFICATION:

As used in this certification, the following terms have the meaning set forth below:

- 1) "Contract" means that contract between the State of Connecticut (and/or one or more of its agencies or instrumentalities) and the Contractor, attached hereto, or as otherwise described by the awarding State agency below;
- 2) If this is an Initial Certification, "Execution Date" means the date the Contract is fully executed by, and becomes effective between, the parties; if this is a twelve-month anniversary update, "Execution Date" means the date this certification is signed by the Contractor;
- 3) "Contractor" means the person, firm or corporation named as the contractor below;
- 4) "Applicable Public Official or State Employee" means any public official or state employee described in C.G.S. §4-252(c)(1)(i) or (ii);
- 5) "Gift" has the same meaning given that term in C.G.S. § 4-250(1);
- 6) "Principals or Key Personnel" means and refers to those principals and key personnel of the Contractor, and its or their agents, as described in C.G.S. §§ 4-250(5) and 4-252(c)(1)(B) and (C).

I, the undersigned, am a Principal or Key Personnel of the person, firm or corporation authorized to execute this certification on behalf of the Contractor. I hereby certify that, no gifts were made by (A) such person, firm, corporation, (B) any principals and key personnel of the person firm or corporation who participate substantially in preparing bids, proposals or negotiating state contracts or (C) any agent of such, firm, corporation, or principals or key personnel who participates substantially in preparing bids, proposals or negotiating state contracts, to (i) any public official or state employee of the state agency or quasi-public agency soliciting bids or proposals for state contracts who participates substantially in the preparation of bid solicitations or request for proposals for state contracts or the negotiation or award of state contracts or (ii) any public official or state employee of any other state agency, who has supervisory or appointing authority over such state agency or quasi-public agency.

I further certify that no Principals or Key Personnel know of any action by the Contractor to circumvent (or which would result in the circumvention of) the above certification regarding **Gifts** by providing for any other Principals, Key Personnel, officials, or employees of the Contractor, or its or their agents, to make a **Gift** to any Applicable Public Official or State Employee. I further certify that the Contractor made the bid or proposal for the Contract without fraud or collusion with any person.

CAMPAIGN CONTRIBUTION CERTIFICATION:

I further certify that, on or after December 31, 2006, neither the Contractor nor any of its principals, as defined in C.G.S. § 9-612(g)(1), has made any **campaign contributions** to, or solicited any contributions on behalf of, any exploratory committee, candidate committee, political committee, or party committee established by, or supporting or authorized to support, any candidate for statewide public office, in violation of C.G.S. § 9-612(g)(2)(A). I further certify that **all lawful campaign contributions** that have been made on or after December 31, 2006 by the Contractor or any of its principals, as defined in C.G.S. § 9-612(g)(1), to, or solicited on behalf of, any exploratory committee, candidate committee, political committee, or party committee established by, or supporting or authorized to support any candidates for statewide public office or the General Assembly, are listed below:

Lawful Campaign Contributions to Candidates for Statewide Public Office:

<u>Contribution Date</u>	<u>Name of Contributor</u>	<u>Recipient</u>	<u>Value</u>	<u>Description</u>

Lawful Campaign Contributions to Candidates for the General Assembly:

<u>Contribution Date</u>	<u>Name of Contributor</u>	<u>Recipient</u>	<u>Value</u>	<u>Description</u>

Sworn as true to the best of my knowledge and belief, subject to the penalties of false statement.

Printed Contractor Name

Printed Name of Authorized Official

Signature of Authorized Official

Subscribed and acknowledged before me this _____ day of _____, 20__.

Commissioner of the Superior Court (or Notary Public)



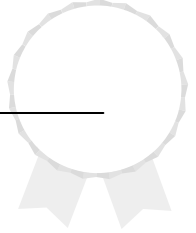
Certified Corporate Resolution
(must be submitted on company letterhead)

I, *(name of Secretary of the Board)*, Secretary of *(name of Corporation)*, a Connecticut Corporation, DO HEREBY certify that the following is a true and correct copy of a resolution duly adopted at a meeting of the Board of Directors of *(name of Corporation)* duly held and convened on *(date of meeting)*, at which meeting a duly constituted quorum of the Board of Directors was present and acting throughout and that such resolution has not been modified, rescinded or revoked and is at present in full force and effect:

RESOLVED: That *(name of contract signatory)*, *(title of contract signatory)*, is empowered to execute and deliver in the name and on behalf of this Company contracts with the State of Connecticut, Department of Correction, and to affix the corporate seal.

IN WITNESS WHEREOF, the undersigned has affixed his/her signature and the corporate seal of the Company this date of , 200 .

(name of Secretary of the Board)
Secretary



- Notes:
1. The date of the meeting (paragraph 1) must be **prior** to the signature date of contract.
 2. The date of the meeting (paragraph 1) must be within one year of the signature date of contract.
 3. The date listed in paragraph 3 must be **on or after** the date on which the contract was signed.
 4. If your company does not have a Corporate Seal, **delete all references to a seal and put an "LS" immediately after the Secretary's signature.** "LS" should be written after the Secretary of the Board signature in parenthesis.
 5. If your company has a Corporate Seal, it should be applied after the Secretary has signed and dated the Resolution, so that it crosses over the signature and date without obliterating either (the intent is to show that the seal was applied after the Secretary signed and dated the final paragraph).
 6. It is also **VERY** important that the name of the person authorized to sign contracts is spelled out **EXACTLY** as the person will sign their name on the contract (i.e., middle initial, Jr./Sr., etc.).
 7. While the person signing the certification is usually the Secretary of the Board, it can be any officer. However, the person signing as certifier **cannot** be the person authorized to sign contracts (one cannot authorize themselves to sign contracts – the name in Paragraph 1 cannot be the same as the signature on the bottom)

Example

FOR YOUR INFORMATION

Certificate (of Authority)

The Certificate of Authority is a document stating the name and title of the person resolved (through a corporate resolution) and authorized to legally bind the organization to contractual agreements on its behalf.

Instructions for completing the Certificate (of Authority)

The Certificate (Authority) to Accompany the Bid Proposal Form:

1. 1st Paragraph:
 - a. First, enter the name and title of the individual signing the Certificate (of Authority).
 - b. Second, enter the name the entity (exactly as it shows on the Secretary of State registry).
 - c. Third, enter the name of the state or commonwealth the entity is registered in.
 - d. Fourth, enter the date the resolution was adopted by the governing body. This date is on or before the date the Bid Proposal is signed.
 - e. Fifth, enter the name of the state or commonwealth the entity is registered in.
2. 2nd Paragraph:
 - a. Enter the name and title of the individual signing bid documents for the entity.
 - b. Second, enter the name of the entity (exactly as it shows on the Secretary of State registry).
3. Last Paragraph:
 - a. Enter the Witness date, this will likely be the date of execution of the Bid Proposal form.
The Date should not be before the date of execution of the bid proposal.

The Certificate (Authority) to Accompany the Contract:

4. 1st Paragraph:
 - a. First, enter the name and title of the individual signing the Certificate (of Authority).
 - b. Second, enter the name the entity (exactly as it shows on the Secretary of State registry).
 - c. Third, enter the name of the state or commonwealth the entity is registered in.
 - d. Fourth, enter the date the resolution was adopted by the governing body. This date is on or before the date the Contract is signed.
 - e. Fifth, enter the name of the state or commonwealth the entity is registered in.
5. 2nd Paragraph:
 - a. First enter the name and title of the individual signing contract documents for the entity.
 - b. Second, enter the name of the entity (exactly as it shows on the Secretary of State registry).
6. Last Paragraph:
 - a. Enter the Witness date, this will be the date of execution of the Contract.
The Date should not be before the date of execution of the Contract.

CERTIFICATE

I _____, _____
(Signer's name) (Signer's title)

of _____, an entity lawfully organized
(Name of entity)

and existing under the laws of _____, do hereby certify that the
(Name or State or Commonwealth)

following are true and correct copies of resolutions adopted on the ____ day of _____,

20__ by the governing body of _____,
(Name of entity)

in accordance with all of its documents of governance and management and the laws of

_____ and further certify that such resolutions have not been
(Name or State or Commonwealth)

modified, rescinded or revoked, and are at present in full force and effect.

RESOLVED: That _____,
(Name and title of signer of contract documents)

of _____ is empowered and authorized, on behalf of the entity,
(Name of entity)

to execute and deliver contracts and amendments thereto, and all documents required by the Governor, the Connecticut Department of Correction, and the Office of the Attorney General associated with such contracts and amendments.

IN WITNESS WHEREOF, the undersigned has executed this certificate this ____ day of _____, 20__.

Sign name:

Title:

Print name:

FORM A

**Bid Number
15DOC0500AA**



STATE OF CONNECTICUT
 NONDISCRIMINATION CERTIFICATION — Representation
By Individual
 For All Contract Types Regardless of Value

Written representation that complies with the nondiscrimination agreements and warranties under Connecticut General Statutes §§ 4a-60(a)(1) and 4a-60a(a)(1), as amended

INSTRUCTIONS:

For use by an individual who is not an entity (corporation, limited liability company, or partnership) when entering into any contract type with the State of Connecticut, regardless of contract value. Submit to the awarding State agency prior to contract execution.

REPRESENTATION OF AN INDIVIDUAL:

I, _____ , of _____ ,
 Signatory Business Address

represent that I will comply with the nondiscrimination agreements and warranties of Connecticut General Statutes §§ 4a-60(a)(1) and 4a-60a(a)(1), as amended.

_____ Signatory

_____ Date

_____ Printed Name

Informational Bulletin

THE 10-HOUR OSHA CONSTRUCTION SAFETY AND HEALTH COURSE

(applicable to public building contracts entered into *on or after July 1, 2007*, where the total cost of all work to be performed is at least \$100,000)

- (1) This requirement was created by Public Act No. 06-175, which is codified in Section 31-53b of the Connecticut General Statutes (pertaining to the prevailing wage statutes);
- (2) The course is required for public building construction contracts (projects funded in whole or in part by the state or any political subdivision of the state) entered into on or after July 1, 2007;
- (3) It is required of private employees (not state or municipal employees) and apprentices who perform manual labor for a general contractor or subcontractor on a public building project where the total cost of all work to be performed is at least \$100,000;
- (4) The ten-hour construction course pertains to the ten-hour Outreach Course conducted in accordance with federal OSHA Training Institute standards, and, for telecommunications workers, a ten-hour training course conducted in accordance with federal OSHA standard, 29 CFR 1910.268;
- (5) The internet website for the federal OSHA Training Institute is http://www.osha.gov/fso/ote/training/edcenters/fact_sheet.html;
- (6) The statutory language leaves it to the contractor and its employees to determine who pays for the cost of the ten-hour Outreach Course;
- (7) Within 30 days of receiving a contract award, a general contractor must furnish proof to the Labor Commissioner that all employees and apprentices performing manual labor on the project will have completed such a course;
- (8) Proof of completion may be demonstrated through either: (a) the presentation of a *bona fide* student course completion card issued by the federal OSHA Training Institute; *or* (2) the presentation of documentation provided to an employee by a trainer certified by the Institute pending the actual issuance of the completion card;
- (9) Any card with an issuance date more than 5 years prior to the commencement date of the construction project shall not constitute proof of compliance;

- (10) Each employer shall affix a copy of the construction safety course completion card to the certified payroll submitted to the contracting agency in accordance with Conn. Gen. Stat. § 31-53(f) on which such employee's name first appears;
- (11) Any employee found to be in non-compliance shall be subject to removal from the worksite if such employee does not provide satisfactory proof of course completion to the Labor Commissioner by the fifteenth day after the date the employee is determined to be in noncompliance;
- (12) Any such employee who is determined to be in noncompliance may continue to work on a public building construction project for a maximum of fourteen consecutive calendar days while bringing his or her status into compliance;
- (13) The Labor Commissioner may make complaint to the prosecuting authorities regarding any employer or agent of the employer, or officer or agent of the corporation who files a false certified payroll with respect to the status of an employee who is performing manual labor on a public building construction project;
- (14) The statute provides the minimum standards required for the completion of a safety course by manual laborers on public construction contracts; any contractor can exceed these minimum requirements; and
- (15) Regulations clarifying the statute are currently in the regulatory process, and shall be posted on the CTDOL website as soon as they are adopted in final form.
- (16) Any questions regarding this statute may be directed to the Wage and Workplace Standards Division of the Connecticut Labor Department via the internet website of <http://www.ctdol.state.ct.us/wgwkstnd/wgemenu.htm>; or by telephone at (860)263-6790.

THE ABOVE INFORMATION IS PROVIDED EXCLUSIVELY AS AN EDUCATIONAL RESOURCE, AND IS NOT INTENDED AS A SUBSTITUTE FOR LEGAL INTERPRETATIONS WHICH MAY ULTIMATELY ARISE CONCERNING THE CONSTRUCTION OF THE STATUTE OR THE REGULATIONS.

November 29, 2006

Notice
To All Mason Contractors and Interested Parties
Regarding Construction Pursuant to Section 31-53 of the
Connecticut General Statutes (Prevailing Wage)

The Connecticut Labor Department Wage and Workplace Standards Division is empowered to enforce the prevailing wage rates on projects covered by the above referenced statute.

Over the past few years the Division has withheld enforcement of the rate in effect for workers who operate a forklift on a prevailing wage rate project due to a potential jurisdictional dispute.

The rate listed in the schedules and in our Occupational Bulletin (see enclosed) has been as follows:

Forklift Operator:

- **Laborers (Group 4) Mason Tenders** - operates forklift solely to assist a mason to a maximum height of nine feet only.
- **Power Equipment Operator (Group 9)** - operates forklift to assist any trade and to assist a mason to a height over nine feet.

The U.S. Labor Department conducted a survey of rates in Connecticut but it has not been published and the rate in effect remains as outlined in the above Occupational Bulletin.

Since this is a classification matter and not one of jurisdiction, effective January 1, 2007 the Connecticut Labor Department will enforce the rate on each schedule in accordance with our statutory authority.

Your cooperation in filing appropriate and accurate certified payrolls is appreciated.

Sec. 31-53b. Construction safety and health course. New miner training program. Proof of completion required for mechanics, laborers and workers on public works projects. Enforcement. Regulations. Exceptions. (a) Each contract for a public works project entered into on or after July 1, 2009, by the state or any of its agents, or by any political subdivision of the state or any of its agents, described in subsection (g) of section 31-53, shall contain a provision requiring that each contractor furnish proof with the weekly certified payroll form for the first week each employee begins work on such project that any person performing the work of a mechanic, laborer or worker pursuant to the classifications of labor under section 31-53 on such public works project, pursuant to such contract, has completed a course of at least ten hours in duration in construction safety and health approved by the federal Occupational Safety and Health Administration or, has completed a new miner training program approved by the Federal Mine Safety and Health Administration in accordance with 30 CFR 48 or, in the case of telecommunications employees, has completed at least ten hours of training in accordance with 29 CFR 1910.268.

(b) Any person required to complete a course or program under subsection (a) of this section who has not completed the course or program shall be subject to removal from the worksite if the person does not provide documentation of having completed such course or program by the fifteenth day after the date the person is found to be in noncompliance. The Labor Commissioner or said commissioner's designee shall enforce this section.

(c) Not later than January 1, 2009, the Labor Commissioner shall adopt regulations, in accordance with the provisions of chapter 54, to implement the provisions of subsections (a) and (b) of this section. Such regulations shall require that the ten-hour construction safety and health courses required under subsection (a) of this section be conducted in accordance with federal Occupational Safety and Health Administration Training Institute standards, or in accordance with Federal Mine Safety and Health Administration Standards or in accordance with 29 CFR 1910.268, as appropriate. The Labor Commissioner shall accept as sufficient proof of compliance with the provisions of subsection (a) or (b) of this section a student course completion card issued by the federal Occupational Safety and Health Administration Training Institute, or such other proof of compliance said commissioner deems appropriate, dated no earlier than five years before the commencement date of such public works project.

(d) This section shall not apply to employees of public service companies, as defined in section 16-1, or drivers of commercial motor vehicles driving the vehicle on the public works project and delivering or picking up cargo from public works projects provided they perform no labor relating to the project other than the loading and unloading of their cargo.

(P.A. 06-175, S. 1; P.A. 08-83, S. 1.)

History: P.A. 08-83 amended Subsec. (a) by making provisions applicable to public works project contracts entered into on or after July 1, 2009, replacing provision re total cost of work with reference to Sec. 31-53(g), requiring proof in certified payroll form that new mechanic, laborer or worker has completed a 10-hour or more construction safety course and adding provision re new miner training program, amended Subsec. (b) by substituting "person" for "employee" and adding "or program", amended Subsec. (c) by adding "or in accordance with Federal Mine Safety and Health Administration Standards" and setting new deadline of January 1, 2009, deleted former Subsec. (d) re "public building", added new Subsec. (d) re exemptions for public service company employees and delivery drivers who perform no labor other than delivery and made conforming and technical changes, effective January 1, 2009.

Project: Upgrade Corrigan CC Fire Alarm System

**Minimum Rates and Classifications
for Building Construction**

ID# : B 19452

**Connecticut Department of Labor
Wage and Workplace Standards Division**

By virtue of the authority vested in the Labor Commissioner under provisions of Section 31-53 of the General Statutes of Connecticut, as amended, the following are declared to be the prevailing rates and welfare payments and will apply only where the contract is advertised for bid within 20 days of the date on which the rates are established. Any contractor or subcontractor not obligated by agreement to pay to the welfare and pension fund shall pay this amount to each employee as part of his/her hourly wages.

Project Number:

Project Town: Montville

State#:

FAP#:

Project: Upgrade Corrigan CC Fire Alarm System

CLASSIFICATION	Hourly Rate	Benefits
1a) Asbestos Worker/Insulator (Includes application of insulating materials, protective coverings, coatings, & finishes to all types of mechanical systems; application of firestopping material for wall openings & penetrations in walls, floors, ceilings	35.75	28.82
<hr/>		
1b) Asbestos/Toxic Waste Removal Laborers: Asbestos removal and encapsulation (except its removal from mechanical systems which are not to be scrapped), toxic waste removers, blasters.**See Laborers Group 7**		
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2) Boilermaker	35.24	25.01

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Project: Upgrade Corrigan CC Fire Alarm System

3a) Bricklayer, Cement Mason, Concrete Finisher (including caulking), Stone Masons	32.50	27.46 + a
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3b) Tile Setter	33.05	23.28
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3c) Terrazzo Mechanics and Marble Setters	31.69	22.35
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3d) Tile, Marble & Terrazzo Finishers	25.95	19.82
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3e) Plasterer	32.50	27.46
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-----LABORERS-----

As of: Thursday, July 03, 2014

Project: Upgrade Corrigan CC Fire Alarm System

4) Group 1: Laborers (common or general), acetylene burners, carpenter tenders, concrete specialists, wrecking laborers, fire watchers.	27.05	17.80
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4a) Group 2: Mortar mixers, plaster tender, power buggy operators, powdermen, fireproofer/mixer/nozzleman (Person running mixer and spraying fireproof only)..	27.30	17.80
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4b) Group 3: Jackhammer Operators/Pavement Breaker, mason tender (brick) and mason tender (cement/concrete)	27.55	17.80
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4c) **Group 4: Pipelayers (Installation of water, storm drainage or sewage lines outside of the building line with P6, P7 license) (the pipelayer rate shall apply only to one or two employees of the total crew who primary task is to actually perform the mating of pipe sections) P6 and P7 rate is \$26.80	27.30	17.80
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4d) Group 5: Air track operators, Sand blasters	27.80	17.80
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4e) Group 6: Nuclear toxic waste removers, blasters	30.05	17.80
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Project: Upgrade Corrigan CC Fire Alarm System

4f) Group 7: Asbestos/lead removal and encapsulation (except it's removal from mechanical systems which are not to be scrapped)	28.05	17.80
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4g) Group 8: Bottom men on open air caisson, cylindrical work and boring crew	27.55	17.80
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4h) Group 9: Top men on open air caisson, cylindrical work and boring crew	27.05	17.80
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4i) Group 10: Traffic Control Signalman	16.00	17.80
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5) Carpenter, Acoustical Ceiling Installation, Soft Floor/Carpet Laying, Metal Stud Installation, Form Work and Scaffold Building, Drywall Hanging, Modular-Furniture Systems Installers, Lathers, Piledrivers, Resilient Floor Layers.	31.00	22.50
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5a) Millwrights	31.60	22.75
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As of: Thursday, July 03, 2014

Project: Upgrade Corrigan CC Fire Alarm System

6) Electrical Worker (including low voltage wiring) (Trade License required: E1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9)	38.10	23.86 + 3% of gross wage
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7a) Elevator Mechanic (Trade License required: R-1,2,5,6)	47.15	26.785+a+b
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-----LINE CONSTRUCTION-----

Groundman	24.37	6.5%+10.04
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Linemen/Cable Splicer	44.30	6.5%+17.70
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8) Glazier (Trade License required: FG-1,2)	34.58	18.55
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As of: **Thursday, July 03, 2014**

Project: Upgrade Corrigan CC Fire Alarm System

9) Ironworker, Ornamental, Reinforcing, Structural, and Precast Concrete Erection	34.47	29.74
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----OPERATORS----

Group 1: Crane handling or erecting structural steel or stone, hoisting engineer 2 drums or over, front end loader (7 cubic yards or over); work boat 26 ft. and over. (Trade License Required)	36.80	22.30 + a
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Group 2: Cranes (100 ton rate capacity and over); Excavator over 2 cubic yards; Piledriver (\$3.00 premium when operator controls hammer); Bauer Drill/Caisson. (Trade License Required)	36.48	22.30 + a
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Group 3: Excavator; Backhoe/Excavator under 2 cubic yards; Cranes (under 100 ton rated capacity), Grader/Blade; Master Mechanic; Hoisting Engineer (all types of equipment where a drum and cable are used to hoist or drag material regardless of motive power of operation), Rubber Tire Excavator (Drott-1085 or similar); Grader Operator; Bulldozer Fine Grade. (slopes, shaping, laser or GPS, etc.). (Trade License Required)	35.74	22.30 + a
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Group 4: Trenching Machines; Lighter Derrick; Concrete Finishing Machine; CMI Machine or Similar; Koehring Loader (Skooper).	35.35	22.30 + a
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Project: Upgrade Corrigan CC Fire Alarm System

Group 5: Specialty Railroad Equipment; Asphalt Paver; Asphalt Reclaiming Machine; Line Grinder; Concrete Pumps; Drills with Self Contained Power Units; Boring Machine; Post Hole Digger; Auger; Pounder; Well Digger; Milling Machine (over 24" Mandrell)	34.76	22.30 + a
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Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller; Pile Testing Machine.	34.76	22.30 + a
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Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer).	34.45	22.30 + a
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Group 7: Asphalt roller, concrete saws and cutters (ride on types), vermeer concrete cutter, Stump Grinder; Scraper; Snooper; Skidder; Milling Machine (24" and under Mandrell).	34.11	22.30 + a
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Group 8: Mechanic, grease truck operator, hydroblaster; barrier mover; power stone spreader; welding; work boat under 26 ft.; transfer machine.	33.71	22.30 + a
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Group 9: Front end loader (under 3 cubic yards), skid steer loader regardless of attachments, (Bobcat or Similar): forklift, power chipper; landscape equipment (including Hydroseeder).	33.28	22.30 + a
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Project: Upgrade Corrigan CC Fire Alarm System

Group 10: Vibratory hammer; ice machine; diesel and air, hammer, etc.	31.24	22.30 + a
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Group 11: Conveyor, earth roller, power pavement breaker (whiphammer), robot demolition equipment.	31.24	22.30 + a
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Group 12: Wellpoint operator.	31.18	22.30 + a
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Group 13: Compressor battery operator.	30.60	22.30 + a
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Group 14: Elevator operator; tow motor operator (solid tire no rough terrain).	29.46	22.30 + a
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Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.	29.05	22.30 + a
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As of: Thursday, July 03, 2014

Project: Upgrade Corrigan CC Fire Alarm System

Group 16: Maintenance Engineer/Oiler.	28.40	22.30 + a
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Group 17: Portable asphalt plant operator; portable crusher plant operator; portable concrete plant operator.	30.60	22.30 + a
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Group 18: Power safety boat; vacuum truck; zim mixer; sweeper; (Minimum for any job requiring a CDL license).	30.29	22.30 + a
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-----PAINTERS (Including Drywall Finishing)-----

10a) Brush and Roller	31.02	18.55
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10b) Taping Only/Drywall Finishing	31.77	18.55
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Project: Upgrade Corrigan CC Fire Alarm System

10c) Paperhanger and Red Label	31.52	18.55
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10e) Blast and Spray	34.02	18.55
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11) Plumber (excluding HVAC pipe installation) (Trade License required: P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2)	39.31	26.27
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12) Well Digger, Pile Testing Machine	33.01	19.40 + a
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13) Roofer (composition)	32.85	17.72
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14) Roofer (slate & tile)	33.35	17.72
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15) Sheetmetal Worker (Trade License required for HVAC and Ductwork: 34.87 32.40
SM-1,SM-2,SM-3,SM-4,SM-5,SM-6)

16) Pipefitter (Including HVAC work) (Trade 39.31 26.27
License required: S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4, G-1, G-2, G-8 &
G-9)

-----TRUCK DRIVERS-----

17a) 2 Axle 28.33 19.14 + a

17b) 3 Axle, 2 Axle Ready Mix 28.43 19.14 + a

17c) 3 Axle Ready Mix 28.48 19.14 + a

Project: Upgrade Corrigan CC Fire Alarm System

17d) 4 Axle, Heavy Duty Trailer up to 40 tons	28.53	19.14 + a
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17e) 4 Axle Ready Mix	28.58	19.14 + a
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17f) Heavy Duty Trailer (40 Tons and Over)	28.78	19.14 + a
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17g) Specialized Earth Moving Equipment (Other Than Conventional Type on-the-Road Trucks and Semi-Trailers, Including Euclids)	28.58	19.14 + a
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18) Sprinkler Fitter (Trade License required: F-1,2,3,4)	39.76	19.87 + a
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19) Theatrical Stage Journeyman	22.22	6.53
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As of: **Thursday, July 03, 2014**

Project: Upgrade Corrigan CC Fire Alarm System

Welders: Rate for craft to which welding is incidental.

**Note: Hazardous waste removal work receives additional \$1.25 per hour for truck drivers.*

***Note: Hazardous waste premium \$3.00 per hour over classified rate*

ALL Cranes: When crane operator is operating equipment that requires a fully licensed crane operator to operate he receives an extra \$1.00 premium in addition to the hourly wage rate and benefit contributions:

1) Crane handling or erecting structural steel or stone; hoisting engineer (2 drums or over)

2) Cranes (100 ton rate capacity and over) Bauer Drill/Caisson

3) Cranes (under 100 ton rated capacity)

Crane with 150 ft. boom (including jib) - \$1.50 extra

Crane with 200 ft. boom (including jib) - \$2.50 extra

Crane with 250 ft. boom (including jib) - \$5.00 extra

Crane with 300 ft. boom (including jib) - \$7.00 extra

Crane with 400 ft. boom (including jib) - \$10.00 extra

All classifications that indicate a percentage of the fringe benefits must be calculated at the percentage rate times the "base hourly rate".

Apprentices duly registered under the Commissioner of Labor's regulations on "Work Training Standards for Apprenticeship and Training Programs" Section 31-51-d-1 to 12, are allowed to be paid the appropriate percentage of the prevailing journeymen hourly base and the full fringe benefit rate, providing the work site ratio shall not be less than one full-time journeyman instructing and supervising the work of each apprentice in a specific trade.

The Prevailing wage rates applicable to this project are subject to annual adjustments each July 1st for the duration of the project.

Each contractor shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.

It is the contractor's responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor's website.

The annual adjustments will be posted on the Department of Labor's Web page: www.ct.gov/dol. For those without internet access, please contact the division listed below.

The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project.

All subsequent annual adjustments will be posted on our Web Site for contractor access.

Contracting Agencies are under no obligation pursuant to State labor law to pay any increase due to the annual adjustment provision.

As of: Thursday, July 03, 2014

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Effective October 1, 2005 - Public Act 05-50: any person performing the work of any mechanic, laborer, or worker shall be paid prevailing wage

All Person who perform work ON SITE must be paid prevailing wage for the appropriate mechanic, laborer, or worker classification.

All certified payrolls must list the hours worked and wages paid to All Persons who perform work ON SITE regardless of their ownership i.e.: (Owners, Corporate Officers, LLC Members, Independent Contractors, et. al)

Reporting and payment of wages is required regardless of any contractual relationship alleged to exist between the contractor and such person.

~~Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clause (29 CFR 5.5 (a) (1) (ii)).

Please direct any questions which you may have pertaining to classification of work and payment of prevailing wages to the Wage and Workplace Standards Division, telephone (860)263-6790.

As of: Thursday, July 03, 2014