



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

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January 26, 2016

**ADDENDUM NUMBER TWO**

**RFQ # 7550177**

**TITLE: Fire Alarm Upgrades to the Central Distribution Warehouse, DOC**

**NOTICE:**

This Addendum modifies, amends and supplements designated part of the CONTRACT DOCUMENTS for the project identified as "Fire Alarm Upgrades to the Central Distribution Warehouse, Rhode Island Department of Corrections", dated October 10, 2014, are hereby made a part thereof by reference, and shall be as binding as though inserted in its entirety in the locations designated hereunder. It shall be the responsibility of the Contractor to notify all subcontractor and suppliers he proposes to use for the various parts of the work of any changes or modifications contained in this Addendum. No claim for additional compensation due to lack of knowledge of the contents of this Addendum will be considered.

**SPECIFICATIONS:**

1. Section 16100 Electrical
  - a. Delete paragraph 2.6 Fire Alarm, Part B Scope of Work, Sub-paragraph 2, "Protectowire Fire Systems".
  - b. Delete paragraph 2.6 Fire Alarm, Part C Acceptable Equipment and Service Providers, Sub-paragraph 1 in its entirety and insert the following:
    1. Manufacturers: SimplexGrinell is the basis of design for the Fire Alarm System. Others will be accepted as long as they meet the intrinsic values of the SimplexGrinell system. Protectowire Fire Systems is the basis of design for the Linear Heat Detection System. Others will be accepted as long as they meet the intrinsic values of the Protectowire Fire Systems system.

**DRAWINGS:**

1. Drawing E0.01, Fire Alarm System Notes, Legend and Riser Diagram:
  - a. Delete drawing in its entirety and replace with attached drawing E0.01.

**NOTICE TO ALL CONTRACTORS:**

Contractors shall call our office to verify number of Addendum issued at least 24 hours in advance of bid submission. Failure to acknowledge receipt of this addendum on the bid form may, at the sole discretion of the Owner, serve as justification to reject bids.

END OF WRITTEN ADDENDUM  
\*\*\*ADDENDUM TWO\*\*\*  
PAGE 1 OF 1

# FIRE ALARM UPGRADES

## FOR THE CENTRAL DISTRIBUTION WAREHOUSE

40 HOWARD AVENUE  
CRANSTON, RHODE ISLAND

### Edward Rowse ARCHITECTS

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### GENERAL NOTES

- EXISTING CONDITIONS WERE OBTAINED FROM DRAWINGS AND DATA PROVIDED BY THE OWNER AND A/E FIELD SURVEY. NO WARRANTY OF ACTUAL CONDITIONS IS INTENDED BY ARCHITECT OR OWNER. CONTRACTOR TO VERIFY AND COORDINATE ALL EXISTING CONDITIONS WITH NEW WORK PRIOR TO BID, START OF CONSTRUCTION OR ANY FABRICATION.
- CONTRACTOR SHALL VISIT SITE, PRIOR TO BID, AND CAREFULLY INVESTIGATE AND EXAMINE THE AREA OF WORK SO AS TO SATISFY HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK. CONTRACTOR TO NOTE THE CHARACTER, QUALITY, QUANTITIES OF MATERIALS REQUIRED AND DIFFICULTIES TO BE ENCOUNTERED, THE KIND AND EXTENT OF EQUIPMENT AND FACILITIES NEEDED FOR PERFORMANCE OF THE WORK AND OTHER ITEMS WHICH MAY, IN ANY WAY, AFFECT THE WORK OR CONTRACTOR'S PERFORMANCE.
- DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- NO EXITS SHALL BE CLOSED WITHOUT THE WRITTEN PERMISSION OF THE OWNER AND LOCAL AUTHORITIES HAVING JURISDICTION.
- THE BUILDING WILL BE OCCUPIED DURING ALL OF THE CONSTRUCTION PROCESS. THE CONSTRUCTION SCHEDULE SHALL BE DEVELOPED WITH THE UNDERSTANDING THAT THE BUILDING IS OCCUPIED AND THAT IT CAN NEITHER BE CLOSED NOR CAN THE OWNER'S OPERATIONS STOP.

Date: October 10, 2014

Drawn by: RB Proj. Mgr.: GA

#### Revisions

No.	Date	Description
2	01-26-16	ADDENDUM 2

### FIRE ALARM SYSTEM NOTES, LEGEND AND RISER DIAGRAM

# E0.01

### DEMOLITION AND REMOVAL WORK

- REMOVE ALL FIRE ALARM DEVICES, WIRING, AND OTHER ELECTRICAL WORK AS INDICATED ON FLOOR PLANS OR AS OTHERWISE REQUIRED.
- WHEREVER IT IS REQUIRED TO DISCONNECT OR REMOVE ANY PART OF AN EXISTING CIRCUIT, IMMEDIATELY RECONNECT THAT CIRCUIT OR REESTABLISH SERVICE IN THE REMAINING PORTION OF THE CIRCUIT.
- THE WORK SHALL ALSO INCLUDE THE REMOVAL OF MATERIALS AS DIRECTED. PRIOR TO REMOVING EQUIPMENT AND MATERIAL FROM PROJECT SITE, THE BUILDING MANAGER OR OWNER WILL INSPECT AND ADVISE WHICH ITEMS WILL BE STORED.
- WHERE PRESENT WORK IS DAMAGED IN THE EXECUTION OF THIS CONTRACT, OR WHERE OPENINGS ARE LEFT DUE TO THE REMOVAL OF CONDUITS, EQUIPMENT, OR APPARATUS, THE SAME SHALL BE REPAIRED OR CLOSED UP TO CORRESPOND IN MATERIAL, QUALITY, SHAPE, AND FINISH WITH THAT OR SIMILAR ADJOINING WORK, UNLESS OTHERWISE CALLED FOR.
- SHOULD ANY DAMAGE DUE TO THE EXECUTION OF THIS CONTRACT OCCUR TO THE FURNITURE, FIXTURES, OR ANY OTHER EQUIPMENT OR APPARATUS, SUCH DAMAGES SHALL BE PROPERLY REPAIRED WITH THE SUPPLY OF NEW ARTICLES AND MADE GOOD WITHOUT EXTRA CHARGE.
- WHERE REMOVAL OF EXISTING FIRE ALARM OR ELECTRICAL EQUIPMENT WILL RESULT IN OUTAGES IN AREA NOT TO BE DEMOLISHED, THIS CONTRACTOR SHALL COORDINATE IN ADVANCE AND OBTAIN THE APPROVAL OF THE BUILDING MANAGER OR OWNER.

### FIRE ALARM EXISTING EQUIPMENT

- THE EXISTING FACILITY IS EQUIPPED WITH A FIRE ALARM SYSTEM WHICH IS TO BE REPLACED WITH NEW. ALL NEW EQUIPMENT SHALL BE OF THE SAME MANUFACTURER, SIMPLEX-GRINELL.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REVIEW THE SCOPE OF WORK AND PROPOSED EQUIPMENT WITH THE SUPERINTENDENT OF FIRE ALARMS FOR THE CITY PRIOR TO PURCHASE AND INSTALLATION. THE E.C. SHALL ALSO NOTIFY THE LOCAL FIRE DEPARTMENT AND THE OWNER AT LEAST 48 HOURS IN ADVANCE OF ANY MODIFICATIONS, POSSIBLE DISRUPTION TO, OR ASSOCIATED WORK ON THE EXISTING FIRE ALARM SYSTEM.
- THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN ACTIVE THROUGHOUT THE CONSTRUCTION PERIOD UNTIL THE NEW FIRE ALARM SYSTEM HAS BEEN INSTALLED, TESTED AND ACCEPTED BY THE FIRE DEPARTMENT. THE EXISTING SYSTEM SHALL THEN BE REMOVED COMPLETELY INCLUDING ALL EXISTING DEVICES, CONDUIT WIRE AND CONNECTIONS TO EXISTING SPRINKLER ZONES.
- THE E.C. SHALL BE RESPONSIBLE FOR ALL POWER SUPPLIES REQUIRED DUE TO THE NEW DEVICES/APPLIANCES PROVIDED UNDER THIS CONTRACT.
- THE E.C. SHALL FURNISH BATTERY CALCULATIONS WHICH INCORPORATE ALL EXISTING EQUIPMENT IN ADDITION TO ALL NEW APPLIANCES/DEVICES.
- PROVIDE ALL FIRE ALARM WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL HAVE A RED STRIPE PAINTED EVERY 10'-0". ALL JUNCTION BOXES AND COVERS SHALL BE PAINTED RED. FIRE ALARM RATED "MC" CABLE MAY BE USED WHERE RUN CONCEALED IF ACCEPTABLE TO THE LOCAL FIRE DEPARTMENT.

### FIRE ALARM RADIO CITY BOX

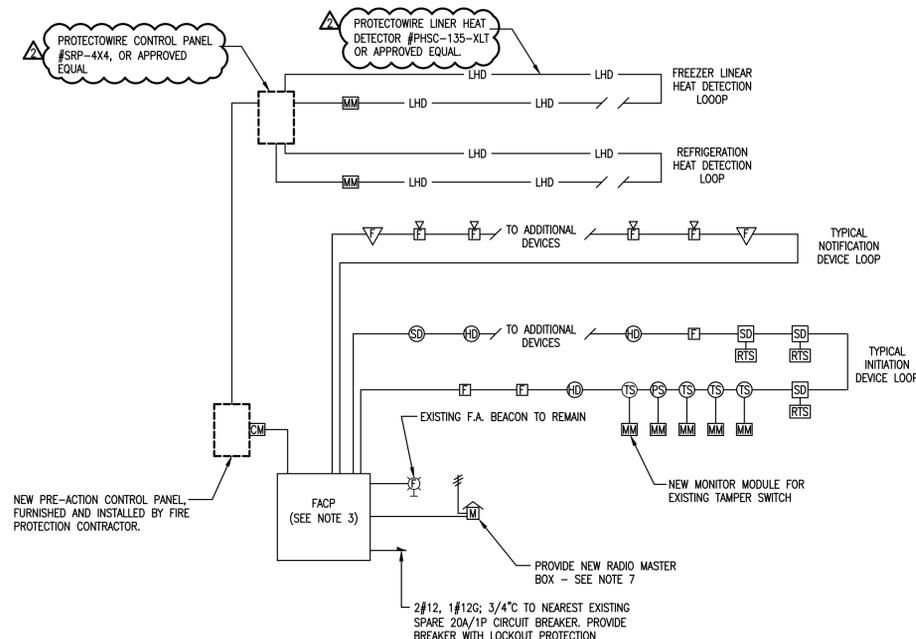
- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A RADIO CITY BOX, ANTENNA AND INTERCONNECTING CABLE AS MANUFACTURED BY SIGNAL COMMUNICATIONS.
- THE RADIO BOX SHALL CONTAIN THE FOLLOWING:
  - TRANSMISSION: MANUALLY OPERATED OR AUTOMATICALLY ACTIVATED BY CONVENTIONALLY WIRED DETECTION DEVICES, NFPA-072B SYSTEM. FCC TYPE ACCEPTED.
  - POWER SUPPLY:
    - PRIMARY: LOCAL POWER 110-115 VAC - 25 WATTS.
    - SECONDARY: TRICKLE CHARGER GEL CELL BATTERY, RATING 7.5 ma/HR/12VDC.
    - SECONDARY: TRICKLE CHARGER GEL CELL BATTERY, RATING 7.5 ma/HR/12VDC.
  - INSTALLATION: SURFACE (INTERIOR OR EXTERIOR) OR EXTERIOR POLE MOUNTED.
    - RANGE: 25 MILES, NOMINAL.
  - FREQUENCY: 72-76 MHz (FCC PART 90)
  - CODING TECHNIQUE: FREQUENCY MODULATION - TONE CODE.
  - CALL FUNCTIONS: MASTER ALARM, MANUAL ALARM, TROUBLE.
  - TOTAL FUNCTIONS: OPERATES WHEN:
    - LOW VOLTAGE.
    - DETECTOR LOOP FAILURE.
  - MULTI ZONE: UP TO 10 SEPARATELY SUPERVISED ZONES.
  - ANTENNA OUTPUT: 1.0 WATTS (NOMINAL).
  - ANTENNA: 1/4 WAVE, COAXIAL (LENGTH 6'-0").
  - ANTENNA CABLE:
    - MAX. 35'-0" - RG 58U
    - MAX. 75'-0" - RG 8AU
    - OVER 75'-0" - CONSULT FACTORY
  - TRANSMISSION TIME (FOR 3 ROUNDS): LESS THAN 3 SECONDS.
  - ELECTRONICS: SOLID STATE.
  - TEMPERATURE RANGE: -30°F TO +150°F.
  - HOUSING SIZE: 16" WIDTH, 21" HEIGHT, 9 1/2" DEPTH
  - HOUSING MATERIAL: CAST ALUMINUM
  - WEIGHT: LESS THAN 75 lbs.
  - STYLING: FAMILIAR COTTAGE STYLE, VANDAL RESISTANT.
- APPROVED SHALL BE RECEIVED FROM THE LOCAL AUTHORITIES HAVING JURISDICTION BEFORE INSTALLATION.

### ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ARCH	ARCHITECT
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C/B	CIRCUIT BREAKER
DWG	DRAWING
E	WIRED ON EMERGENCY CIRCUIT
EC	ELECTRICAL CONTRACTOR
ETD	EXISTING TO BE DEMOLISHED
ETR	EXISTING TO REMAIN
ETRL	EXISTING TO BE RELOCATED
ETRP	EXISTING TO BE REPLACED
FPC	FIRE PROTECTION CONTRACTOR
G	GROUND
GC	GENERAL CONTRACTOR
HVAC	HEATING, VENTILATION, AIR CONDITIONING CONTRACTOR
MLO	MAIN LUGS ONLY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NTS	NOT TO SCALE
Ø	PHASE
RL	NEW LOCATION OF RELOCATED DEVICE
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VIF	VERIFY IN FIELD
WP	WEATHERPROOF

### FIRE ALARM SYSTEM

☐	MANUAL PULL STATION MOUNTED 48" AFF
☐	AUDIO/VISUAL ALARM MOUNTED 80" AFF.
▽	VISUAL ONLY UNIT MOUNTED 80" AFF.
SD	PHOTOELECTRIC SMOKE DETECTOR
190°	135° FIXED TEMPERATURE HEAT DETECTOR. "190" INDICATES 190°F FIXED TEMPERATURE
TS	SPRINKLER TAMPER SWITCH FURNISHED AND INSTALLED BY THE FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR
TS	SPRINKLER WATER FLOW SWITCH FURNISHED AND INSTALLED BY THE FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR.
SD	DUCT MOUNTED SMOKE DETECTOR WITH SAMPLING TUBE
RTS	REMOTE TEST STATION FOR DUCT SMOKE DETECTOR WITH NAMEPLATE LABELED ACCORDINGLY
RAI	REMOTE ALARM INDICATOR
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM REMOTE ANNUNCIATOR
CM	ADDRESSABLE CONTROL MODULE
MM	ADDRESSABLE MONITOR MODULE
EOL	END OF LINE RESISTOR
H-EX	EXTERIOR FIRE ALARM BEACON
K	KNOX BOX
LM	FIRE ALARM MASTER BOX



#### FIRE ALARM RISER NOTES:

- REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF ALL DEVICES.
- THE FIRE ALARM SYSTEM SHALL CONFORM WITH THE REQUIREMENTS OF THE RHODE ISLAND FIRE SAFETY CODE AND THE CITY OF CRANSTON FIRE DEPARTMENT. SHOP DRAWINGS SHALL BE SUBMITTED TO THE FIRE DEPARTMENT FOR APPROVAL.
- PROVIDE A NEW ADDRESSABLE FIRE ALARM SYSTEM IN ACCORDANCE WITH CONTRACT SPECIFICATIONS. ALL DEVICES SHALL BE NEW AND MANUFACTURED BY A SOLE MANUFACTURER. ALL FIRE ALARM WIRING SHALL BE CLASS A PER MANUFACTURER'S RECOMMENDATIONS AND SHALL BE INSTALLED IN MINIMUM 3/4" EMT CONDUIT, BASIS OF DESIGN IS SIMPLEX/GRINELL, FACP CATALOG #4010ES. ACCEPTABLE EQUIPMENT AND SERVICE PROVIDERS ARE NOTIFER, EDWARDS SIGNALING OR FCI.
- ALL FIRE ALARM WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF NFPA, STATE, AND LOCAL BUILDING CODES AND THE AMERICANS WITH DISABILITIES ACT (ADA).
- PROVIDE REMOTE BOOSTER POWER SUPPLY PANELS AS REQUIRED.
- PROVIDE FAULT ISOLATION MODULES ON THE SIGNAL LINE CIRCUIT TO PROTECT THE SYSTEM FROM LINE TO LINE FAULTS. MODULES SHALL BE PROVIDED AS REQUIRED, WITH A MINIMUM OF (1) MODULE PER EVERY 25 DEVICES.
- PROVIDE NEW RADIO MASTER BOX IN ACCORDANCE WITH THE CITY OF CRANSTON FIRE DEPARTMENT REQUIREMENTS. THE EXISTING MASTER BOX NUMBER IS 9954. PROVIDE ANTENNA AND LOCATE AS DIRECTED BY THE FIRE DEPARTMENT.

### FIRE ALARM RISER DIAGRAM

NOT TO SCALE