

INTERDEPARTMENTAL MEMORANDUM

TO: David Busanet, Bidding and Contracts Supervisor
Bidding & Contracts, Room G-35
165 Capitol Avenue, Hartford, CT 06106

FROM: 
Ashour Gevorgisnia, Project Manager
Team CSU, Room 460
165 Capitol Avenue, Hartford, CT 06106

DATE: September 18, 2009

SUBJECT: ADDENDUM # 2

PROJECT TITLE: Energy Upgrades Project
Bullard Havens Regional Vocational Technical School

PROJECT NO.: BI-2B-317

SCHEDULED BID OPENING: 09-24-09

Please expedite the attached Addendum # 2.

1. The total number of pages in this addendum is: 1.
2. The total number of drawings in this addendum is: N/A.
3. See attached Revised "Bid Released" form (55) dated: N/A.
4. Coordinator to explain reason for addendum (clarification purposes, added work, etc.). Will addendum save money or cost more?

Issued for clarification purposes.

This item should not affect the cost of the project.

Attachment

xc: Agency
Team File
Project Manager

**ENERGY UPGRADES
BULLARD HAVENS REGIONAL VOCATIONAL TECHNICAL SCHOOL
BRIDGEPORT, CONNECTICUT
PROJECT: BI- 2B - 317**

| | | |
|--------------------------|-------------------------|---------------------------|
| BID OPENING | 1:00 P.M. | 9-24-2009 |
| ADDENDUM NUMBER 2 | DATE OF ADDENDUM | SEPTEMBER 18, 2009 |

The following clarifications are applicable to drawings and specifications for the project referenced above.

Item 1

The bid opening will be changed from September 24, 2009 at 1:00 p.m. to October 6, 2009 at 1:00 p.m.

Item 2

Response to the request for information:

Question #1: Are the fixtures in Assembly Hall room 102 a one for one replacement or is the overall number of fixtures in the room being reduced?

Answer: The fixtures in the Assembly Hall room #102 are a one for one replacement.

End of Addendum Number Two (2)


Mellanee Walton For
Associate Fiscal Administrative Officer
Department of Public Works

INTERDEPARTMENTAL MEMORANDUM

TO: David Busanet, Bidding and Contracts Supervisor
Bidding & Contracts, Room G-35
165 Capitol Avenue, Hartford, CT 06106

FROM: 
Ashour Gevargisnia, Project Manager
Team CSU, Room 460
165 Capitol Avenue, Hartford, CT 06106

DATE: 9/17/2009

SUBJECT: ADDENDUM # 1

PROJECT TITLE: Bullard Havens RVTS
Energy Upgrades Project

PROJECT NO.: BI-2B-317

SCHEDULED BID OPENING: 09-24-09

Please expedite the attached Addendum # 1.

1. The total number of pages in this addendum is: 2727.
2. The total number of drawings in this addendum is: 17.
3. See attached Revised "Bid Released" form (55) dated: N/A.
4. Coordinator to explain reason for addendum:
Revised Electrical Drawings to allow for replacement of existing electronic ballasts with new programmed rapid start ballasts in all existing corridor and stairwell fluorescent luminaries, along with allowing for lamp socket replacement in stairwell fluorescent luminaries. These items will add to the cost of the project.

The type of ceiling mounted sensor in the center of the bridge connecting buildings "A" & "B" was changed to a photocell type sensor to take advantage of the natural light in the bridge. This item should not affect the cost of the project, and will provide additional energy savings for the DPW.

xc: Agency. Theodore Holly
Team File BI-2B-317 (R1)
Project Manager. Ashour Gevargisnia

**ENERGY UPGRADES
BULLARD HAVENS REGIONAL VOCATIONAL TECHNICAL SCHOOL
BRIDGEPORT, CONNECTICUT
PROJECT: BI- 2B - 317**

| | | |
|--------------------------|-------------------------|---------------------------|
| BID OPENING | 1:00 P.M. | 9-24-2009 |
| ADDENDUM NUMBER 1 | DATE OF ADDENDUM | SEPTEMBER 16, 2009 |

The following clarifications are applicable to drawings and specifications for the project referenced above.

Item 1

Drawing EG-1: Add to Symbol Legend;

- a. WT-600 Wattstopper "Ultrasonic Ceiling Sensor" See attached SKE-2
- b. WT-1100 Wattstopper "Ultrasonic Ceiling Sensor" See attached SKE-2
- c. WT-2200 Wattstopper "Ultrasonic Ceiling Sensor" See attached SKE-2
- d. WT-2250 Wattstopper "Ultrasonic Ceiling Sensor" See attached SKE-2
- e. LS-301 Wattstopper "Dimming Photo Sensor" See attached SKE-2
- f. Revised Luminaire Schedule for Types "B" & "B1"-changed "electronic instant start" ballasts to "programmed rapid start" ballasts. See attached SKE-1
- g. Revised Luminaire Schedule: Note #3; add "All occupancy sensors shall be set for 30 (thirty) minute time delay." See attached SKE-1

Item 2

Drawing EG-2: Add wiring diagram for LS-301 Dimming Photosensor. See attached SKE-3

Item 3

Drawing E-1.1:

Add to Electrical Keyed Notes #1: "Replace Lamp Sockets as Necessary"
See attached SKE-4

Revise Electrical Keyed Notes #1 & 2 to include: "Replace existing ballasts with electronic Programmed Rapid Start Ballasts" See attached SKE-4

Item 4

Drawing E-2.1:

- a. Add to Electrical Keyed Notes #1: "Replace Lamp Sockets as Necessary" See attached SKE-5
- b. Revise Electrical Keyed Notes #1 & 2 to include: "Replace existing ballasts with electronic Programmed Rapid Start Ballasts" See attached SKE-5
- c. Change symbol for sensor at center of "bridge" from "H" to "D" See attached SKE-6

Item 5

Drawing E-3.1:

- a. Add to Electrical Keyed Notes #1: "Replace Lamp Sockets as Necessary" See attached SKE-7
- b. Revise Electrical Keyed Notes #1 & 2 to include: "Replace existing ballasts with electronic Programmed Rapid Start Ballasts" See attached SKE-7

Item 6

Drawing E-4.1:

Revise Electrical Keyed Note #1 to include: "Replace existing ballasts with electronic Programmed Rapid Start Ballasts" See attached SKE-8

Item 7

Drawing E-4.2:

Revise Electrical Keyed Note #1 to include: "Replace existing ballasts with electronic Programmed Rapid Start Ballasts" See attached SKE-9

Item 8

Drawing E-4.3:

Revise Electrical Keyed Note #1 to include: "Replace existing ballasts with electronic Programmed Rapid Start Ballasts" See attached SKE-10

Item 9

Drawing E-4.4:

Revise Electrical Keyed Note #1 to include: "Replace existing ballasts with electronic Programmed Rapid Start Ballasts" See attached SKE-11

Item 10

Drawing E-4.5:

Revise Electrical Keyed Note #1 to include: "Replace existing ballasts with electronic Programmed Rapid Start Ballasts" See attached SKE-12

Item 11

Drawing E-4.6:

Revise Electrical Keyed Note #1 to include: "Replace existing ballasts with electronic Programmed Rapid Start Ballasts" See attached SKE-13

Item 12

Drawing E-4.7:

Revise Electrical Keyed Note #1 to include: "Replace existing ballasts with electronic Programmed Rapid Start Ballasts" See attached SKE-14

Item 13

Drawing E-5.1:

Revise Electrical Keyed Note #1 to include: "Replace existing ballasts with electronic Programmed Rapid Start Ballasts" See attached SKE-15

Item 14

Drawing E-5.2:

Revise Electrical Keyed Note #1 to include: "Replace existing ballasts with electronic Programmed Rapid Start Ballasts" See attached SKE-16

Item 15

Drawing E-1.1:

Show location of Facility Management System Sub-panel on plan. See attached SKE-17

Item 16

Specification Section 16510:

- a. Replace Paragraph 2.3 "Fluorescent (Programmed Start) and High Intensity Discharge Lamp Ballasts" with attached Paragraph 2.3 "Ballasts for Linear Fluorescent Lamps". See attached "Paragraph 2.3."

Item 17

Building "B" – Existing Corridors # C-105, E-129, F-144, E-130, F-143, B-158, A-135, G-151 & G-157 have perforated, corrugated metal ceilings with access points within corridors.

Item 18

Building "A" – Existing Corridors have 'spline' type ceiling tiles. The removal and replacement of 'spline' ceiling tiles shall be coordinated with building management personnel. Refer to Project Manual for additional information on these ceiling tiles.



David Busanet,
Bidding & Contracts Supervisor
Department of Public Works

End of Addendum # 1.

2.3 BALLASTS FOR LINEAR FLUORESCENT LAMPS

A. General Requirements for Electronic Ballasts:

1. Comply with UL 935 and with ANSI C82.11.
2. Designed for type and quantity of lamps served.
3. Ballasts shall be designed for full light output unless another BF, dimmer, or bi-level control is indicated.
4. Sound Rating: Class A
5. Total Harmonic Distortion Rating: Less than 10 percent.
6. Transient Voltage Protection: IEEE C62.41.1 and IEEE C62.41.2, Category A or better.
7. Operating Frequency: 42 kHz or higher.
8. Lamp Current Crest Factor: 1.7 or less.
9. BF: 0.88 or higher.
10. Power Factor: 0.98 or higher.

B. Luminaires controlled by occupancy sensors shall have programmed-start ballasts.

C. Electronic Programmed-Start Ballasts for T5 and T5HO Lamps: Comply with ANSI C82.11 and the following:

1. Lamp end-of-life detection and shutdown circuit for T5 diameter lamps.
2. Automatic lamp starting after lamp replacement.

LUMINAIRE SCHEDULE

| TYPE | MANUFACTURER | EST. WATTS | CATALOG NUMBER | LAMP QTY. | LAMP TYPE | VOLTS | BALLAST QTY. | BALLAST TYPE | MOUNTING | REMARKS | LOCATION |
|------|--------------|------------|--------------------------------------|-----------|-----------------------------|-------|--------------|---------------------------|---------------------|---|---------------|
| A | HALO | 56 | H603E-610C | 2 | 26W-DTT 3500°K 82 CRI | 120 | 1 | ELECTRONIC HPF | GYP. BD. CEILING | 7" DIA. x 5-5/16" DEEP DOWNLIGHT W/ WHITE TRIM RING & BAFFLE - CLEAR SPECULAR REFL. | BATHROOMS |
| B | METALUX | 61 | 8T-STN-2-32-120-ER81- WG/SS-4FT-U | 2 | 32W-T8 4100°K 82 CRI | 120 | 1 | PROGRAMMED RAPID START | SURFACE | 5-1/4"W x 4-1/8" x 6" INDUSTRIAL STRIP 2-4" WIREGUARDS-SEE NOTE #2 BELOW | GARAGE |
| B1 | METALUX | 61 | STN-2-32-120-ER81- WG/SS-4FT-U | 2 | 32W-T8 4100°K 82 CRI | 120 | 1 | PROGRAMMED RAPID START | SURFACE | 5-1/4"W x 4-1/8" x 4" INDUSTRIAL STRIP 1-4" WIREGUARDS-SEE NOTE #2 BELOW | GARAGE |
| C | PORTIFOLIO | 56 | C8242-ID42-6350-LI | 2 | 26W-TTT 3000°K 82 CRI | 120 | 1 | ELECTRONIC DIMMING | GYP. BD. CEILING | 8" DIA. x 7-3/4" DEEP DOWNLIGHT WITH WHITE TRIM RING & CLEAR SPECULAR REFL.-DIM. BALL | ASSEMBLY HALL |
| D | PORTIFOLIO | 42 | C19242-2D42-P-C838P- 9250-LI | 1 | 42W-TTT 3000°K 82 CRI | 120 | 1 | ELECTRONIC DIMMING | GYP. BD. CEILING | 6" DIA. x 15" PENDANT CYLINDER WITH WHITE ALUM. HOUSING-STEM LENGTH TO MATCH EXIST. | ASSEMBLY HALL |

NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL INSTALL IN ALL RETROFITTED LIGHTING FIXTURES, NEW T8 FLUORESCENT LAMPS WITH A MINIMUM OF 82 CRI AND COLOR TEMPERATURE OF 4100°K. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING BALLASTS FROM CORRIDOR LUMINAIRES AND PROVIDE NEW PROGRAMMED RAPID START BALLASTS.
2. ALL NEW FLUORESCENT BALLASTS SHALL BE ELECTRONIC, MAXIMUM THD 10% PROGRAMMED RAPID START.
3. ALL OCCUPANCY SENSORS AND ACCESSORIES SHALL BE MANUFACTURED BY WATSTOPPER OR APPROVED EQUAL. ALL OCCUPANCY SENSORS SHALL BE SET FOR 30 (THIRTY) MINUTE TIME DELAY.

REFERENCE DRAWING: EG-1



09-15-09 ISSUED FOR BID & CONSTRUCTION

CONSULTING ENGINEERS:



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| | |
|------------------|--|
| Project Name: | Bullard Havens RVTS Energy Upgrades Project |
| Project Number: | BI-2B-317 |
| Project Address: | 500 Palisade Avenue Bridgeport, CT 06610 |
| Date: | 09-15-09 |
| Drawn By: | TJB |
| Checked By: | LEL/MVM |

SKE-1

SYMBOL LEGEND

| SYM | DESCRIPTION |
|---|---|
|  | WT-600 WATTSTOPPER – ULTRASONIC CEILING SENSOR |
|  | WT-1100 WATTSTOPPER – ULTRASONIC CEILING SENSOR |
|  | WT-2200 WATTSTOPPER – ULTRASONIC CEILING SENSOR |
|  | WT-2250 WATTSTOPPER – ULTRASONIC CEILING SENSOR |
|  | LS-301 WATTSTOPPER – DIMMING PHOTO SENSOR |
|  | AREA OF WORK |
| NOTE: OCC. SENSOR MODEL NUMBERS BASED ON WATTSTOPPER OR EQUAL. | |



REFERENCE DRAWING: EG-1



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Project Name: Bullard Havens RVTS

Energy Upgrades Project

Project Number: BI-2B-317

Project Address: 500 Palisade Avenue

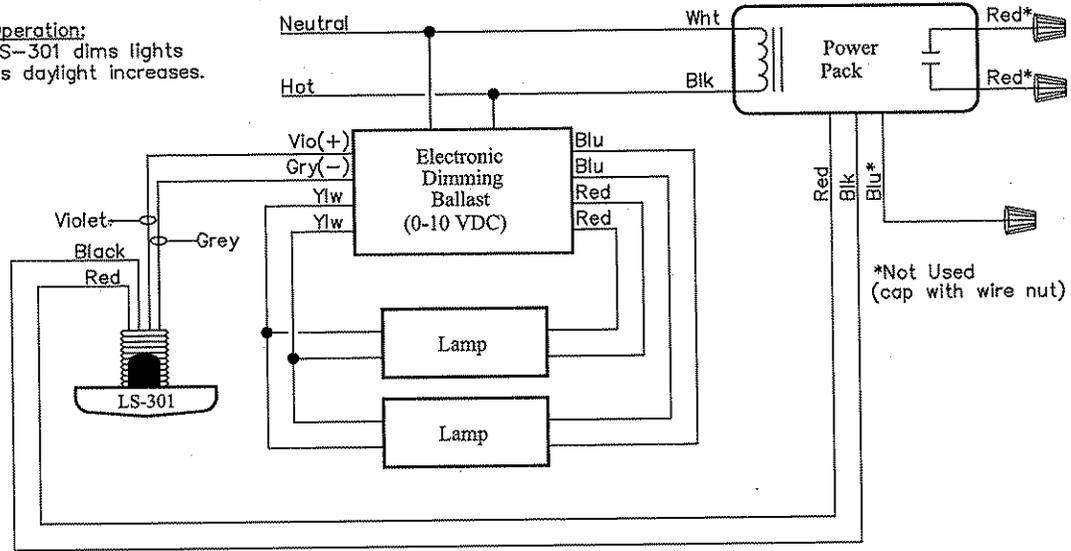
Bridgeport, CT 06610

Date: 09-15-09 Drawn By: TJB Checked By: LEL/MVM

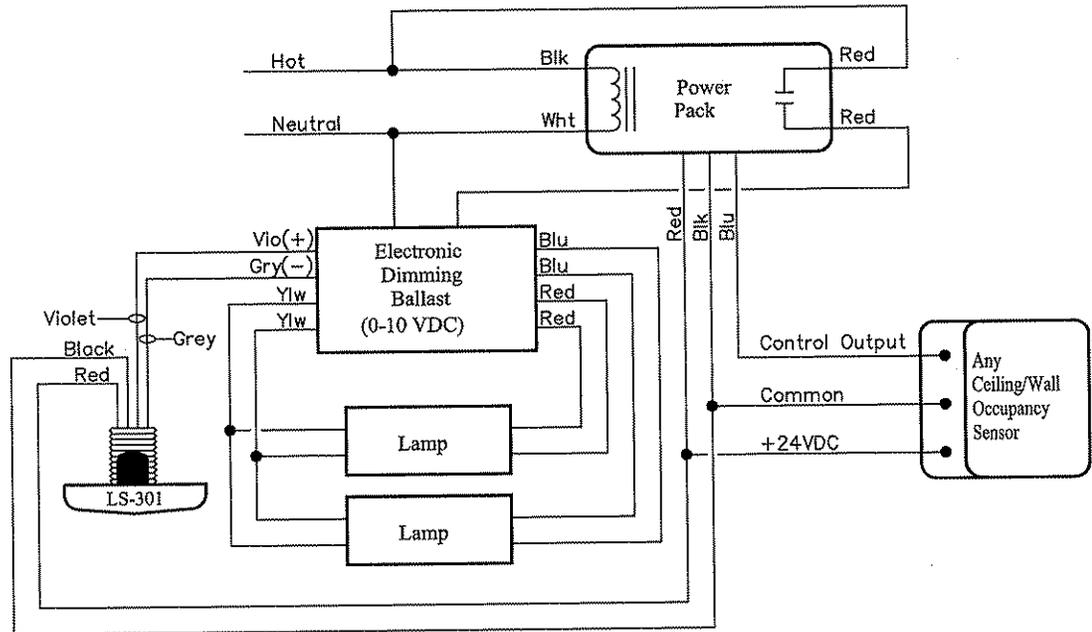
SKE-2

Typical Wiring

Operation:
LS-301 dims lights
as daylight increases.



Wiring with Occupancy Sensor



Operation:
Occupancy Sensor switches
Lights ON/OFF. When occupied, the
LS-301 dims the lights as daylight
increases.

LS-301 Wiring Schematic

REFERENCE DRAWING: EG-2



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| Date: | 09-15-09 |
| Drawn By: | TJB |
| Checked By: | LEL/MVM |

SKE-3

ELECTRICAL KEYED NOTES

| <u>SYM.</u> | <u>DESCRIPTION</u> |
|-------------|---|
| 1 | RETROFIT EXISTING FLUORESCENT LUMINAIRES IN STAIRWELLS – REPLACE EXISTING T12 LAMPS AND BALLASTS WITH NEW 32W, T8 4100°K FLUORESCENT LAMPS AND ELECTRONIC PROGRAMMED RAPID START BALLASTS. BALLASTS SHALL BE 10% MAX. THD. REPLACE LAMP SOCKETS AS NECESSARY. |
| 2 | INSTALL NEW OCCUPANCY SENSORS AS SHOWN IN HALLWAYS AND REPLACE EXISTING FLUORESCENT FIXTURE BALLASTS WITH NEW PROGRAMMED RAPID START ELECTRONIC BALLASTS |

2

REFERENCE DRAWING: E-1.1

2

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Project Name: Bullard Havens RVTS

Energy Upgrades Project

Project Number: BI-2B-317

Project Address: 500 Palisade Avenue

Bridgeport, CT 06610

Date: 09-15-09 Drawn By: TJB Checked By: LEL/MVM

SKE-4

ELECTRICAL KEYED NOTES

| SYM. | <u>DESCRIPTION</u> |
|------|---|
| 1 | RETROFIT EXISTING FLUORESCENT LUMINAIRES IN STAIRWELLS - REPLACE EXISTING T12 LAMPS AND BALLASTS WITH NEW 32W, T8 4100°K FLUORESCENT LAMPS AND ELECTRONIC PROGRAMMED RAPID START BALLASTS. BALLASTS SHALL BE 10% MAX. THD. REPLACE LAMP SOCKETS AS NECESSARY. |
| 2 | INSTALL NEW OCCUPANCY SENSORS AS SHOWN IN HALLWAYS AND REPLACE EXISTING FLUORESCENT FIXTURE BALLASTS WITH NEW PROGRAMMED RAPID START ELECTRONIC BALLASTS |
| 3 | REPLACE EXISTING 120W INCANDESCENT DOWNLIGHT LUMINAIRES IN THE ASSEMBLY HALL WITH NEW COMPACT FLUORESCENT DOWNLIGHT LUMINAIRES - TYPE "C". RE-CONNECT TO EXISTING CIRCUITS. |
| 4 | REPLACE EXISTING 75W INCANDESCENT PENDANT LUMINAIRES IN THE ASSEMBLY HALL WITH NEW COMPACT FLUORESCENT TYPE 'D' PENDANT LUMINAIRES - CONNECT TO EXISTING CIRCUIT(S). |
| 5 | INSTALL NEW OCCUPANCY SENSOR, DIMMING PHOTOSENSOR, BZ-100 POWER PACK AND DIMMING BALLAST FOR DAYLIGHTING CONTROL SYSTEM OF BRIDGE LUMINAIRES |

2

REFERENCE DRAWING: E-2.1

2

09-15-09 ISSUED FOR BID & CONSTRUCTION

CONSULTING ENGINEERS:

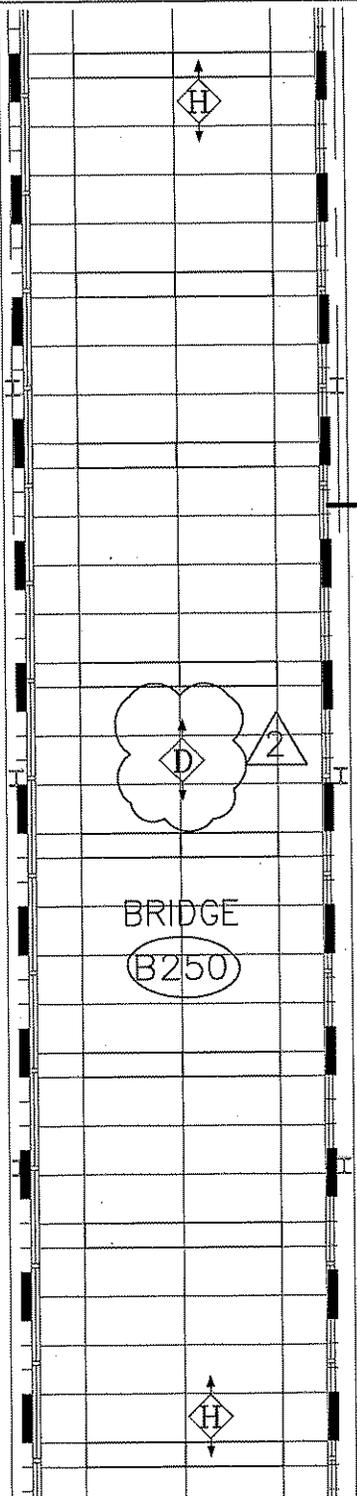


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| | Energy Upgrades Project |
| <u>Project Number:</u> | BI-2B-317 |
| <u>Project Address:</u> | 500 Palisade Avenue |
| | Bridgeport, CT 06610 |
| <u>Date:</u> | 09-15-09 |
| <u>Drawn By:</u> | TJB |
| <u>Checked By:</u> | LEL/MVM |

SKE-5



BRIDGE LIGHTING PLAN

SCALE: 1/8" = 1'-0"

REFERENCE DRAWING: E-2.1



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| Project Number: | BI-2B-317 | |
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| | Bridgeport, CT 06610 | |
| Date: | 09-15-09 | Drawn By: TJB |
| | | Checked By: LEL/MVM |

SKE-6

ELECTRICAL KEYED NOTES

| SYM. | DESCRIPTION |
|------|---|
| 1 | RETROFIT EXISTING FLUORESCENT LUMINAIRES IN STAIRWELLS - REPLACE EXISTING T12 LAMPS AND BALLASTS WITH NEW 32W, T8 4100°K FLUORESCENT LAMPS AND ELECTRONIC PROGRAMMED RAPID START BALLASTS. BALLASTS SHALL BE 10% MAX. THD. REPLACE LAMP SOCKETS AS NECESSARY. |
| 2 | INSTALL NEW OCCUPANCY SENSORS AS SHOWN IN HALLWAYS AND REPLACE EXISTING FLUORESCENT FIXTURE BALLASTS WITH NEW PROGRAMMED RAPID START ELECTRONIC BALLASTS |
| 3 | REPLACE EXISTING 150W INCANDESCENT DOWNLIGHT LUMINAIRES IN THE BATHROOMS WITH NEW COMPACT FLUORESCENT DOWNLIGHT LUMINAIRES - TYPE "A". RE-CONNECT TO EXISTING CIRCUITS. |

2

REFERENCE DRAWING: E-3.1

2

09-15-09 ISSUED FOR BID & CONSTRUCTION

CONSULTING ENGINEERS:

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Project Name: Bullard Havens RVTS
Energy Upgrades Project

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Project Address: 500 Palisade Avenue
Bridgeport, CT 06610

Date: 09-15-09 Drawn By: TJB Checked By: LEL/MVM

SKE-7

ELECTRICAL KEYED NOTES

| SYM. | DESCRIPTION |
|------|--|
| 1 | INSTALL NEW OCCUPANCY SENSORS AS SHOWN IN HALLWAYS AND REPLACE EXISTING FLUORESCENT FIXTURE BALLASTS WITH NEW PROGRAMMED RAPID START ELECTRONIC BALLASTS |

2

REFERENCE DRAWING: E-4.1



09-15-09 ISSUED FOR BID & CONSTRUCTION

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Project Name: Bullard Havens RVTS

Energy Upgrades Project

Project Number: BI-2B-317

Project Address: 500 Palisade Avenue

Bridgeport, CT 06610

Date: 09-14-09 *Drawn By:* TJB *Checked By:* LEL/MVM

SKE-8

ELECTRICAL KEYED NOTES

| SYM. | DESCRIPTION |
|---|---|
|  | INSTALL NEW OCCUPANCY SENSORS AS SHOWN IN HALLWAYS AND MAIN ENTRANCE. REPLACE EXISTING FLUORESCENT FIXTURE BALLASTS WITH NEW PROGRAMMED RAPID START ELECTRONIC BALLASTS |

2

REFERENCE DRAWING: E-4.2

2

09-15-09 ISSUED FOR BID & CONSTRUCTION

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Project Address: 500 Palisade Avenue

Bridgeport, CT 06610

Date: 09-15-09 *Drawn By:* TJB *Checked By:* LEL/MVM

SKE-9

ELECTRICAL KEYED NOTES

| SYM. | DESCRIPTION |
|--|--|
|  | INSTALL NEW OCCUPANCY SENSORS AS SHOWN IN HALLWAYS AND REPLACE EXISTING FLUORESCENT FIXTURE BALLASTS WITH NEW PROGRAMMED RAPID START ELECTRONIC BALLASTS |



REFERENCE DRAWING: E-4.3



09-15-09 ISSUED FOR BID & CONSTRUCTION

CONSULTING ENGINEERS:

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Date: 09-15-09 Drawn By: TJB Checked By: LEL/MVM

SKE-10

ELECTRICAL KEYED NOTES

| SYM. | DESCRIPTION |
|--|--|
|   | INSTALL NEW OCCUPANCY SENSORS AS SHOWN IN HALLWAYS AND REPLACE EXISTING FLUORESCENT FIXTURE BALLASTS WITH NEW PROGRAMMED RAPID START ELECTRONIC BALLASTS |
|  | REPLACE EXISTING 8 FOOT, 4 LAMP AND 4 FOOT, 2 LAMP FLUORESCENT LUMINAIRES IN WELDING SHOP WITH NEW TYPE B & B1 FLUORESCENT LUMINAIRES |
|  | REPLACE EXISTING EIGHT FOOT 2 LAMP FLUORESCENT LUMINAIRES IN GARAGE WITH NEW EIGHT FOOT FLUORESCENT LUMINAIRES – TYPE 'B' – REPLACE ONE (1) EXISTING FOUR FOOT 2 LAMP FLUORESCENT LUMINAIRE IN GARAGE STORAGE RM. WITH ONE (1) FOUR FT. TYPE "B1" FL. LUM. |

REFERENCE DRAWING: E-4.4



09-15-09 ISSUED FOR BID & CONSTRUCTION

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| Date: | 09-15-09 |
| Drawn By: | TJB |
| Checked By: | LEL/MVM |

SKE-11

ELECTRICAL KEYED NOTES

| SYM. | DESCRIPTION |
|---|--|
|  | INSTALL NEW OCCUPANCY SENSORS AS SHOWN IN HALLWAYS AND REPLACE EXISTING FLUORESCENT FIXTURE BALLASTS WITH NEW PROGRAMMED RAPID START ELECTRONIC BALLASTS |



REFERENCE DRAWING: E-45



09-15-09 ISSUED FOR BID & CONSTRUCTION

CONSULTING ENGINEERS:



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| <small>Date:</small> 09-15-09 | <small>Drawn By:</small> TJB <small>Checked By:</small> LEL/MVM |

SKE-12

ELECTRICAL KEYED NOTES

| SYM. | DESCRIPTION |
|--|--|
|  | INSTALL NEW OCCUPANCY SENSORS AS SHOWN IN HALLWAY AND REPLACE EXISTING FLUORESCENT FIXTURE BALLASTS WITH NEW PROGRAMMED RAPID START ELECTRONIC BALLASTS. |



REFERENCE DRAWING: E-4.6



09-15-09 ISSUED FOR BID & CONSTRUCTION

CONSULTING ENGINEERS:

mea

**MUSCO
ENGINEERING
ASSOCIATES**

375 MORGAN LANE, UNIT 307
 WEST HAVEN, CT 06516
 (203) 932-1901 FAX (203) 931-1550
 www.muscoengineering.com

| | |
|-------------------------|--|
| <u>Project Name:</u> | Bullard Havens RVTS Energy Upgrades Project |
| <u>Project Number:</u> | BI-2B-317 |
| <u>Project Address:</u> | 500 Palisade Avenue Bridgeport, CT 06610 |
| <u>Date:</u> | 09-15-09 |
| <u>Drawn By:</u> | TJB |
| <u>Checked By:</u> | LEL/MVM |

SKE-13

ELECTRICAL KEYED NOTES

| SYM. | DESCRIPTION |
|---|---|
|  | INSTALL NEW OCCUPANCY SENSORS AS SHOWN IN HALLWAY AND REPLACE EXISTING FLUORESCENT FIXTURE BALLASTS WITH NEW PROGRAMMED RAPID START ELECTRONIC BALLASTS |



REFERENCE DRAWING: E-4.7



09-15-09 ISSUED FOR BID & CONSTRUCTION

CONSULTING ENGINEERS:



**MUSCO
ENGINEERING
ASSOCIATES**

375 MORGAN LANE, UNIT 307
 WEST HAVEN, CT 06516
 (203) 932-1901 FAX (203) 931-1550
www.muscoengineering.com

| | |
|-------------------------|--|
| <u>Project Name:</u> | Bullard Havens RVTS Energy Upgrades Project |
| <u>Project Number:</u> | BI-2B-317 |
| <u>Project Address:</u> | 500 Palisade Avenue Bridgeport, CT 06610 |
| <u>Date:</u> 09-15-09 | <u>Drawn By:</u> TJB |
| | <u>Checked By:</u> LEL/MVM |

SKE-14

ELECTRICAL KEYED NOTES

| SYM. | DESCRIPTION |
|---|--|
|  | INSTALL NEW OCCUPANCY SENSORS AS SHOWN IN HALLWAYS AND REPLACE EXISTING FLUORESCENT FIXTURE BALLASTS WITH NEW PROGRAMMED RAPID START ELECTRONIC BALLASTS |



REFERENCE DRAWING: E-5.1



09-15-09 ISSUED FOR BID & CONSTRUCTION

CONSULTING ENGINEERS:

MEA

**MUSCO
ENGINEERING
ASSOCIATES**

375 MORGAN LANE, UNIT 307
 WEST HAVEN, CT 06516
 (203) 932-1901 FAX (203) 931-1550
www.muscoengineering.com

Project Name: Bullard Havens RVTS
 Energy Upgrades Project

Project Number: BI-2B-317

Project Address: 500 Palisade Avenue
 Bridgeport, CT 06610

Date: 09-15-09 Drawn By: TJB Checked By: LEL/MVM

SKE-15

ELECTRICAL KEYED NOTES

2

| SYM. | DESCRIPTION |
|--|--|
|  | INSTALL NEW OCCUPANCY SENSORS AS SHOWN IN HALLWAYS AND REPLACE EXISTING FLUORESCENT FIXTURE BALLASTS WITH NEW PROGRAMMED RAPID START ELECTRONIC BALLASTS |

REFERENCE DRAWING: E-5.2

2

09-15-09 ISSUED FOR BID & CONSTRUCTION

CONSULTING ENGINEERS:



**MUSCO
ENGINEERING
ASSOCIATES**

375 MORGAN LANE, UNIT 307
 WEST HAVEN, CT 06516
 (203) 932-1901 FAX (203) 931-1550
 www.muscoengineering.com

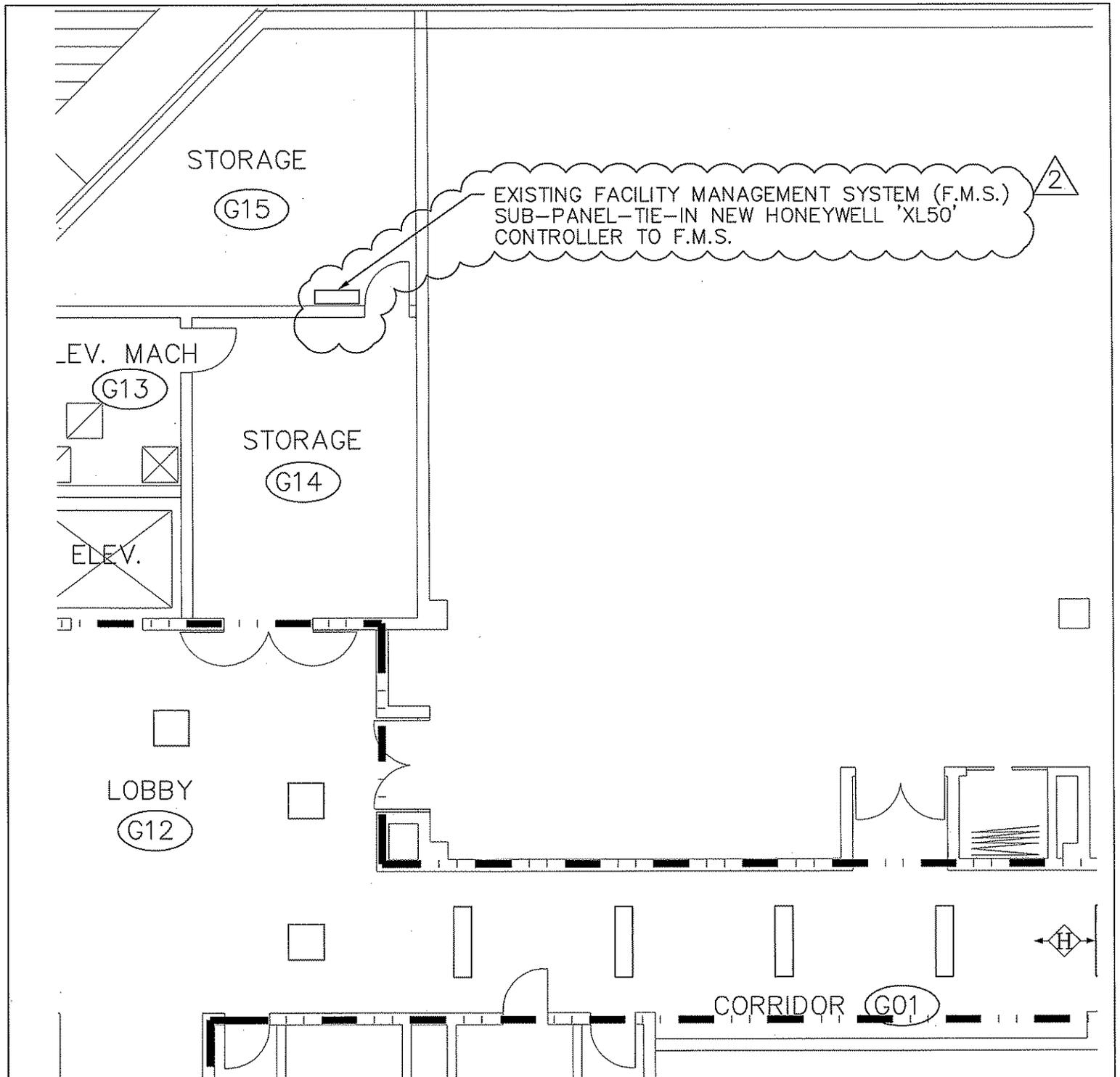
Project Name: Bullard Havens RVTS
 Energy Upgrades Project

Project Number: BI-2B-317

Project Address: 500 Palisade Avenue
 Bridgeport, CT 06610

Date: 09-15-09 Drawn By: TJB Checked By: LEL/MVM

SKE-16



GROUND FLOOR LIGHTING & POWER PLAN - BUILDING "A"

SCALE: 1/8" = 1'-0"

REFERENCE DRAWING: E-1.1



09-15-09 ISSUED FOR BID & CONSTRUCTION

CONSULTING ENGINEERS:



**MUSCO
ENGINEERING
ASSOCIATES**

375 MORGAN LANE, UNIT 307
WEST HAVEN, CT 06516
(203) 932-1901 FAX (203) 931-1550
www.muscoengineering.com

Project Name: Bullard Havens RVTS
Energy Upgrades Project

Project Number: BI-2B-317

Project Address: 500 Palisade Avenue
Bridgeport, CT 06610

Date: 09-15-09 Drawn By: TJB Checked By: LEL/MVM

SKE-17

Meeting sign-in-sheet

Project No: BI-2B-317 Meeting Date: 9/15/2009

Project Name: Energy Upgrades Bullard Haven
Bridgeport, CT

| | | | | | |
|----------------|--------------------|--------------|--------------|------------------|---------------------------|
| Name - Print | Ashour Gevargisnia | Telephone #: | 860-713-5639 | Email Address: | ashour.gevargisnia@ct.gov |
| Company Name | DPW | Fax #: | 860-713-7261 | Website Address: | WWW. |
| Street Address | 165 Capitol Ave | Cell Phone # | 860-214-9598 | | |
| City, St. Zip | Hartford, CT 06160 | | | | |

| | | | | | |
|----------------|--------------------|--------------|--------------|------------------|----------------------------|
| Name - Print | BRIAN CUBANSKI | Telephone #: | 860-887-0823 | Email Address: | Brian@PRIMEELECTRICLLC.COM |
| Company Name | PRIME ELECTRIC LLC | Fax #: | 860-886-3844 | Website Address: | WWW. |
| Street Address | 33 WISCONSIN AVE | Cell Phone # | 860-213-1431 | | |
| City, St. Zip | NORWICH CT 06360 | | | | |

| | | | | | |
|----------------|----------------------------|--------------|--------------|------------------|--------------------|
| Name - Print | Elyah El-Hajji Bey | Telephone #: | 860-683-2959 | Email Address: | RElyMech@aol.com |
| Company Name | REliable Mech. Contractors | Fax #: | 860-298-9719 | Website Address: | WWW.RElyMechct.com |
| Street Address | 11 Palisado Ave | Cell Phone # | 860-543-3605 | | |
| City, St. Zip | Windsor | | | | |

| | | | | | |
|----------------|------------------|--------------|----------|------------------|------------------|
| Name - Print | Ted Holly | Telephone #: | 579-6333 | Email Address: | Ted.Holly@ct.gov |
| Company Name | Bullard J Havens | Fax #: | 579-6804 | Website Address: | WWW. |
| Street Address | | Cell Phone # | 509-4862 | | |
| City, St. Zip | | | | | |

| | | | | | |
|----------------|-------------------------|--------------|--------------|------------------|-------------------------|
| Name - Print | ROGER GREGOIRE | Telephone #: | 860-646-8260 | Email Address: | ARM.PAGER@SACGLOBAL.NET |
| Company Name | ALTERNATIVE RESC. MGMT. | Fax #: | 860-649-8960 | Website Address: | WWW. |
| Street Address | 27 WALNUT DRIVE | Cell Phone # | | | |
| City, St. Zip | HEBON, CT 06248 | | | | |

317

Meeting Date: 9/15/09

Project Name:

ENERGY UPGRADES BULLARD HAVEN
BRIDGEPORT, CT

| | | | | | |
|----------------|-----------------------|--------------|--------------|------------------|---------------------|
| Name - Print | Stephen Mace | Telephone #: | 860 53-8888 | Email Address: | smace@ctairtemp.com |
| Company Name | Air Temp Mech - Serv | Fax #: | 860 953-5877 | Website Address: | www.ctairtemp.com |
| Street Address | 360 Cpt. Lewis Drive | Cell Phone # | 860 944-9835 | | |
| City, St. Zip | Southington, CT 06489 | | | | |

| | | | | | |
|----------------|--------------------|--------------|--------------|------------------|-----------------------|
| Name - Print | Frank Sabia | Telephone #: | 203-496-0136 | Email Address: | Frank.Sabia@yahoo.com |
| Company Name | Sal Sabia Electric | Fax #: | 203-322-1234 | Website Address: | www. |
| Street Address | 83 Virgil St | Cell Phone # | | | |
| City, St. Zip | Stamford CT 06902 | | | | |

| | | | | | |
|----------------|---------------------|--------------|--------------|------------------|------------------------|
| Name - Print | Arwyn Truani | Telephone #: | 860-872-6651 | Email Address: | Arwyn@conserve-inc.com |
| Company Name | CONSERV-INC | Fax #: | 860-872-9025 | Website Address: | www.conserv-inc.com |
| Street Address | 45 Forward Park Rd. | Cell Phone # | 860-209-2363 | | |
| City, St. Zip | Tolland CT 06279 | | | | |

| | | | | | |
|----------------|-------------------|--------------|----------|------------------|---------------------------|
| Name - Print | Daniel Kany | Telephone #: | 378-6685 | Email Address: | Kany Electric @ gmail.com |
| Company Name | Kany Electric LLC | Fax #: | 381-9662 | Website Address: | www. |
| Street Address | 55 Ropes Drive | Cell Phone # | 385-7915 | | |
| City, St. Zip | Stamford, Ct | | | | |

| | | | | | |
|----------------|------------------------|--------------|--------------|------------------|-------------------|
| Name - Print | Paul D. Welburn | Telephone #: | 860-613-7000 | Email Address: | pdwelburn@aol.com |
| Company Name | Nxegea | Fax #: | 860-613-7009 | Website Address: | www.nxegea.com |
| Street Address | 362 Industrial Park Rd | Cell Phone # | 860-558-0171 | | |
| City, St. Zip | Middletown, Ct | | | | |

Meeting sign-in-sheet

Project No:

BE-28-317

Project Name:

ENERGY UPGRADES BULLARD HAVEN
BRIDGEPORT CT

Meeting Date: PAGE 3 OF 8

| | | | | | |
|----------------|-------------------|---------------|----------------|------------------|--------------------------------|
| Name - Print | JIM PINO JR, | Telephone #: | (203) 873-1544 | Email Address: | J.PINO@OLYMPUSCONSTRUCTION.COM |
| Company Name | OLYMPUS CONST. | Fax #: | (203) 873-6430 | Website Address: | WWW.OLYMPUSCONSTRUCTION.COM |
| Street Address | 77 CHERRY ST. | Cell Phone #: | (203) 258-8341 | | |
| City, St. Zip | MILFORD, CT 06460 | | | | |

| | | | | | |
|----------------|------------------------|---------------|--------------|------------------|--------------------|
| Name - Print | Tim Smith | Telephone #: | 960 436 3511 | Email Address: | t.smith@ppe-us.com |
| Company Name | Power Point Energy | Fax #: | 960 436 2872 | Website Address: | WWW.PPE-US.COM |
| Street Address | 92-56 Wolcott Hill Rd. | Cell Phone #: | 860 221-5007 | | |
| City, St. Zip | Wolcottfield CT | | | | |

| | | | | | |
|----------------|----------------------|---------------|----------------|------------------|----------------------|
| Name - Print | Paul Ricci | Telephone #: | (860) 917 1074 | Email Address: | PAUL@ALPHASUN-CT.COM |
| Company Name | ALPHA SUN ENERGY LLC | Fax #: | (860) 468 0060 | Website Address: | WWW. |
| Street Address | PO BOX 206 | Cell Phone #: | | | |
| City, St. Zip | LEBACON CT 06229 | | | | |

| | | | | | |
|----------------|--------------------------------|---------------|--------------|------------------|------------------|
| Name - Print | David Ash | Telephone #: | 860 621 9657 | Email Address: | dash@eesc-ct.com |
| Company Name | Electrical Energy Systems Corp | Fax #: | 860 621 2456 | Website Address: | WWW. |
| Street Address | 215 Captain Lewis Drive | Cell Phone #: | | | |
| City, St. Zip | Southington CT 06488 | | | | |

| | | | | | |
|----------------|------------------|---------------|--------------|------------------|------------------------|
| Name - Print | David Gerdatto | Telephone #: | 203 937 7211 | Email Address: | dave@bill-briteinc.com |
| Company Name | BILL BRITE ELECT | Fax #: | 203 934 547 | Website Address: | WWW. |
| Street Address | 4 Industry Pl | Cell Phone #: | 203 627 0906 | | |
| City, St. Zip | West Haven CT | | | | |

Meeting sign-in-sheet

Project No: BE-ER-317
 Project Name: ENERGY UPGRADES BULLARD HAVEN
BRIDGEPORT CT

Meeting Date: 7/15/09

| | | | | | |
|----------------|------------------------------|---------------|-----------------------|------------------|------------------------------------|
| Name - Print | <u>Joseph Buskis</u> | Telephone #: | <u>(203) 239-4549</u> | Email Address: | <u>jbuskis@kellyct.net</u> |
| Company Name | <u>Kelly Enterprises</u> | Fax #: | <u>(203) 234-9645</u> | Website Address: | <u>www.kellyenterprisesinc.net</u> |
| Street Address | <u>50 UNITED DE.</u> | Cell Phone #: | | | |
| City, St. Zip | <u>NORTH HAVEN, CT 06473</u> | | | | |

| | | | | | |
|----------------|-----------------------------|---------------|-----------------|------------------|--------------------------------|
| Name - Print | <u>Kris Kelly</u> | Telephone #: | <u>777-3424</u> | Email Address: | <u>HVJG@aol.com</u> |
| Company Name | <u>Johnson-Goodyer, Inc</u> | Fax #: | <u>777-1640</u> | Website Address: | <u>www.Johnson-Goodyer.com</u> |
| Street Address | <u>199 Terminal Lane</u> | Cell Phone #: | | | |
| City, St. Zip | <u>New Haven, CT 06519</u> | | | | |

| | | | | | |
|----------------|-------------------------------|---------------|---------------------|------------------|---------------------------------------|
| Name - Print | <u>ERIC CREED</u> | Telephone #: | <u>800-384-6288</u> | Email Address: | <u>eric@harringtonengineering.com</u> |
| Company Name | <u>HARRINGTON ENGINEERING</u> | Fax #: | | Website Address: | <u>www.harringtonengineering.com</u> |
| Street Address | <u>70 Inwood Rd</u> | Cell Phone #: | <u>860</u> | | |
| City, St. Zip | <u>Rocky Hill, CT 06067</u> | | | | |

| | | | | | |
|----------------|---------------------------------|---------------|---------------------|------------------|-----------------------------------|
| Name - Print | <u>Henry Dyson</u> | Telephone #: | <u>203 792 1900</u> | Email Address: | <u>Dyson@NEWENGLANDENERGY.COM</u> |
| Company Name | <u>New England Energy Mgmt.</u> | Fax #: | <u>203 792 1906</u> | Website Address: | <u>www.newenglandenergy.com</u> |
| Street Address | <u>5 Steiner Rock Rd.</u> | Cell Phone #: | <u>203 948 7083</u> | | |
| City, St. Zip | <u>Danbury, CT 06810</u> | | | | |

| | | | | | |
|----------------|---------------------------|---------------|---------------------|------------------|---------------------------------|
| Name - Print | <u>William Marzessy</u> | Telephone #: | <u>203-268-9223</u> | Email Address: | |
| Company Name | <u>AB Mechanical, LLC</u> | Fax #: | <u>203-452-8253</u> | Website Address: | <u>www.WMarzessy@ABMech.com</u> |
| Street Address | <u>453 Pepper St.</u> | Cell Phone #: | <u>203-650-1566</u> | | |
| City, St. Zip | <u>Meriden, CT 06468</u> | | | | |

17-12-2009

Meeting sign-in-sheet

Project No: BE-2B-317 Meeting Date: _____

Project Name: ENERGY UPGRADES BULLARD HAVEN

BEIOME PORT, CT

| | | | | | |
|----------------|-----------------------------------|---------------|---------------------|------------------|--|
| Name - Print | <u>Jeff Saino</u> | Telephone #: | <u>203-334-2329</u> | Email Address: | <u>Jeff.Saino@triconfracturing.com</u> |
| Company Name | <u>Southport Contracting Inc.</u> | Fax #: | <u>203-334-2321</u> | Website Address: | <u>WWW.</u> |
| Street Address | <u>1720 Commerce Drive</u> | Cell Phone #: | <u>203-895-6616</u> | | |
| City, St, Zip | <u>Apt. CT 06605</u> | | | | |

| | | | | | |
|----------------|---------------------------------|---------------|---------------------|------------------|------------------------------------|
| Name - Print | <u>MICHAEL MUSCO</u> | Telephone #: | <u>203-932-1901</u> | Email Address: | <u>MMUSCO@MUSCOENGINEERING.COM</u> |
| Company Name | <u>MUSCO ENGINEERING</u> | Fax #: | <u>203-931-1550</u> | Website Address: | <u>WWW.MUSCOENGINEERING.COM</u> |
| Street Address | <u>375 Morgan Lane Unit 307</u> | Cell Phone #: | <u>203-619-1738</u> | | |
| City, St, Zip | <u>West Haven CT 06516</u> | | | | |

| | | | | | |
|----------------|---------------------------------|---------------|----------------------|------------------|--------------------------------------|
| Name - Print | <u>THOMAS BUCKLEY</u> | Telephone #: | <u>(203)932-1901</u> | Email Address: | <u>TBUCKLEY@MUSCOENGINEERING.COM</u> |
| Company Name | <u>MUSCO ENGINEERING</u> | Fax #: | <u>(203)931-1550</u> | Website Address: | <u>WWW.MUSCOENGINEERING.COM</u> |
| Street Address | <u>375 MORGAN LANE UNIT 307</u> | Cell Phone #: | <u>444-8435</u> | | |
| City, St, Zip | <u>WEST HAVEN CT 06513</u> | | | | |

| | | | | | |
|----------------|------------------------|---------------|----------------|------------------|--------------------------|
| Name - Print | <u>BILL JERIN</u> | Telephone #: | <u>860-713</u> | Email Address: | <u>BILL.JERIN@CTIGON</u> |
| Company Name | <u>CT DPW</u> | Fax #: | <u>-5616</u> | Website Address: | <u>WWW.</u> |
| Street Address | <u>165 CAPITOL AVE</u> | Cell Phone #: | | | |
| City, St, Zip | | | | | |

| | | | | | |
|----------------|------------------------|---------------|------------------|------------------|------------------------------|
| Name - Print | <u>FRANK AMARANTE</u> | Telephone #: | <u>(860) 713</u> | Email Address: | <u>FRANK.AMARANTE@CTIGON</u> |
| Company Name | <u>DPW</u> | Fax #: | <u>5733</u> | Website Address: | <u>WWW.</u> |
| Street Address | <u>165 CAPITOL AVE</u> | Cell Phone #: | | | |
| City, St, Zip | | | | | |

END

INVITATION TO BID

FOR PROJECTS ESTIMATED TO COST LESS THAN \$500,000.00

ADV. NO. 10-04-I

DATE OF INVITATION: September 4, 2009

SEALED BIDS ADDRESSED TO THE DEPARTMENT OF PUBLIC WORKS - STATE OF CONNECTICUT FOR:

| | |
|--|---|
| Project Title: | Energy Upgrades Bullard Havens Regional Vocational Technical School Bridgeport, CT |
| Project Number: | BI-2B-317 |
| Special Requirement: | N/A |
| Cost Estimate Range: | \$385,506. – \$426,085. |
| Plans & Specs Ready: | September 10, 2009 |
| Non-Refundable Fee Per Set | \$ NOT APPLICABLE |
| Examination and Acquisition of Plans & Specs | State Of Connecticut, Department Of Public Works, Plans And Specifications Section, Room No. G-36, 165 Capitol Avenue, Hartford, CT 06106, 7:30 A.M. to 3:00 P.M. (Monday-Friday) or by addressing a request to the above address with your Fedex number. |
| MBE Participation | Good Faith Effort |
| Pre-Bid Conference: | All prospective bidders are encouraged to attend a pre-bid conference |
| Pre-Bid Conference Time | to be held AT 11:00 A.M. |
| Pre-Bid Conference Date | ON September 15, 2009 |
| Pre-Bid Conference Location | AT 500 Palisade Avenue, Bridgeport, CT, Room No. "A" Building Conference room.. |
| Pre-Bid Conference Contact | Theodore Holly @ 203-579-6333 Ext. 6446 |
| BID OPENING DATE: | September 24, 2009 |
| Receipt of Bid Package | Bids will be <i>received</i> at the STATE OFFICE BUILDING, 165 CAPITOL AVENUE, HARTFORD, CT, 06106 in ROOM No. G-36 UNTIL 1:00 P.M. on the date shown above and thereafter publicly <i>opened and read</i> aloud in ROOM No. G-32. |
| Gift And Campaign Contribution Certification | If awarded the subject contract and the contract has a value of \$50,000 or more the contractor will be required to sign and submit, at the time of contract execution, Gift And Campaign Contribution Certification. See the DPW home page, http://www.ct.gov/dpw , click on Affidavits, and then click on Contractor/Consultant Certification. For the purposes of signing the Certification, the "date DPW began planning" the subject project or services is such date noted below. |

