

## **Addendum #2 for Construction RFB**

Project Name: Video Surveillance System at IVH, Marshalltown

DAS RFB #: 1816671242

DAS Project #: 8800.00

Date: 02/01/2016

### **Addendum #2:**

- 1 pages: Cover page, Questions/Answers
- 7 pages: Spec section 27 0500
- 6 pages: Davis Bacon Labor Chart

### **Questions/Answers:**

- Q. Is a Registered Communication Distribution Designer required per specification section 270500/Part 1/1.05/D?
- A. No. Remove spec section 270500/Part 1/1.05/D:
- Q. When installing new low voltage cabling is the contractor obligated to upgrade and properly support the existing low voltage cable?
- A. Contractor will be responsible for supporting new cabling only. New cabling shall be provided for all new cameras and systems.
- Q. Fire rated walls with no sleeves are we to upgrade the opening to meet current standards?
- A. Contractor will be responsible for providing rated penetrations for all new work. If an existing penetration is used and it does not meet the rating of the wall it will be the contractor's responsibility to bring it up to current standards.
- Q. Painting, do we need to just match the color and paint the patch or do we need to repaint "corner to corner" to conceal the patch?
- A. If a patch is required on painted surfaces, the contractor shall repaint "corner to corner" to conceal the patch. It is not anticipated there will be significant patching of painted surfaces if any at all.
- Q. Looking for the Davis Bacon labor chart for this project?
- A. See attached Davis Bacon labor chart as of 1/22/16.

## Section 27 05 00 – Communications General Requirements

### Part 1 - General

#### 1.01 Scope

- A. Refer to Section 27 00 00 for additional project scope information.
- B. This section describes the products and execution requirements related to furnishing and installing Category 6 Cabling and Termination Components and related subsystems as part of a Structured Cabling System.
- C. Backbone system comprising copper cabling and horizontal (station) cabling is covered under this document.
- D. Others will provide the network electronics for the LAN within the Telecom Rooms (TRs) and will be responsible for connecting the new cabling infrastructure to the LAN. The Contractor, however, shall supply the patch cords. The Contractor shall be available on site during the crossover to assist with any cabling issues that may occur during the connection.
- E. The Telecommunication Contractor shall provide and install all sleeves through the wall penetrations as required whether or not specifically marked on Project Drawings, unless otherwise noted.
- F. All cables and related terminations support, and grounding hardware shall be furnished, installed, wired, tested, labeled, and documented by the Contractor, as detailed in the following section(s).
- G. All work and materials shall conform in every detail to the rules and requirements of the National Fire Protection Association, the Electrical Code in the Iowa, and present manufacturing standards.
- H. All materials shall be listed by UL and shall bear the UL label. If UL has no published standards for a particular item, then other national independent testing standards shall apply and such items shall bear those labels. Where UL has an applicable system listing and label, the entire system shall be so labeled.

#### 1.02 Related Work

- A. Section 27 00 00 – General Technology Requirements
- B. Section 27 05 23 – Pathways for Technology Systems
- C. Section 27 05 26 – Grounding and Bonding for Technology Systems
- D. Section 27 11 00 – Communications Equipment Rooms
- E. Section 27 15 00 – Communications Horizontal Cabling

- F. Section 27 16 00 – Communications Connecting Cords
- G. Section 27 18 00 – Communications Labeling and Identification

### 1.03 Definitions

- A. Refer to Section 27 00 00 for additional definitions.

### 1.04 Reference Standards and Codes

- A. Refer to Section 27 00 00 for additional requirements.
- B. All references relate to the current version adopted by the city/county according to the authority having jurisdiction (AHJ). If the city/county has not adopted a version the latest version shall be utilized.
- C. ASTM B633: Specification for Electrodeposited Coatings of Zinc on Iron and Steel
- D. ASTM A653: Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot Dip Process
- E. ASTM A123: Specification for Zinc (Hot Galvanized) Coatings on Iron and Steel
- F. ASTM A510: Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel
- G. ANSI/TIA 569-C: Telecommunications Pathways and Spaces
- H. ANSI/TIA 568-C.0, 1, 2, 3, 4: Commercial Building Telecommunications Standard
- I. ANSI/TIA-598-C-2005 – Optical Fiber Cable Color Coding
- J. ANSI/TIA 606-B: Administration Standard for Telecommunications Infrastructure
- K. ANSI/TIA 942-A: Telecommunications Infrastructure Standard for Data Centers
- L. ANSI/TIA 607-B: Generic Telecommunications Grounding (Earthing) and Bonding for Customer Premises
- M. IEEE: National Electrical Safety Code® (NESC®)  
[standards.ieee.org/about/nesc](http://standards.ieee.org/about/nesc)

### 1.05 Qualifications

- A. Refer to Section 27 00 00 for additional requirements.
- B. Premises Distribution System: Written certification that the premises distribution system complies with the EIA ANSI/TIA/EIA-568-C.0,1, 2, 3, EIA ANSI/TIA/EIA-569-B, and ANSI/TIA/EIA-606-A.
- C. Materials and Equipment: Where materials or equipment are specified to conform, be constructed, or be tested to meet specific requirements, Contractor shall supply,

upon request by Consultant or Owner, certification that the items provided conforms to such requirements. Certification by a nationally recognized testing laboratory that a representative sample has been tested to meet the requirements, or a published catalog specification statement to the effect that the item meets the referenced standard, will be acceptable as evidence that the item conforms. Compliance with these requirements does not relieve the Contractor from compliance with other requirements of the specifications.

D. Certifications

1. All installing personnel shall have completed and be certified in manufacturer training or BICSI (Building Industry Consulting Service International) installation training for UTP infrastructure systems, or the Contractor shall contract with manufacturer for installation of all proposed components. Company Certifications shall accompany the proposal response.
2. The Contractor's technicians shall be certified and trained in the connectivity hardware which is being installed.
3. The Contractor shall submit certification that installers are factory certified to install and test the provided products. No less than half of the crew to be used for the telecommunications installation shall be trained by that manufacturer for the work.

1.06 Pre-Construction Submittals

A. Shop Drawings in addition to requirements in Section 27 00 00:

1. Equipment rack elevation details
2. Elevations of telecommunication room walls with planned mounted equipment
3. Outlet faceplate details for all outlet configurations, sizes, and cable types
4. Overhead telecommunication room enlargements, providing dimensions of room and clearance for maintenance and operation

1.07 Construction Progress Submittals

A. Refer to Section 27 00 00 for requirements.

1.08 Closeout Submittals

A. Refer to Section 27 00 00 for requirements.

1. Data cable test results
2. CD containing:
  - a. As-built drawings (CAD format)
  - b. As-built drawings (PDF format)

- c. Detailed test results in original tester format (e.g. Fluke Linkware)
    - d. Detailed cable test results in PDF format
  - 3. Warranty certification from connectivity manufacturer
- 1.09 Delivery, Storage, and Handling
- A. Contractor shall be responsible for all materials until completion of Project.
  - B. Cable shall be stored according to manufacturer's recommendations at minimum. In addition, cable shall be stored in a location protected from vandalism and weather.
  - C. If cable is stored outside, it shall be covered with opaque plastic or canvas with provision for ventilation to prevent condensation and for protection from weather. If air temperature at cable storage location will be below 40 degrees Fahrenheit, the cable shall be moved to a heated (minimum 50 degrees Fahrenheit) location. If necessary, cable shall be stored off site at the Contractor's expense.
  - D. If the Contractor wishes to have a trailer on site for storage of materials, arrangements shall be made with the Owner.
  - E. Commercial off-the-shelf manuals shall be furnished for operation, installation, configuration, and maintenance for all products provided as a part of the premises distribution system. Specification sheets for all cable, connectors, and other equipment shall be provided.

## **Part 2 - Products**

### **2.01 Substitutions**

- A. Unless noted otherwise, products in this section are intended as a basis of design and are open to substitutions per the product substitution procedures defined in Section 27 00 00.

### **2.02 Fire Stopping Materials**

- A. Refer to Section 27 00 00 for additional requirements.

## **Part 3 - Execution**

### **3.01 Testing**

- A. Refer to Section 27 00 00 for additional requirements.

### **3.02 Training**

- A. Refer to Section 27 00 00 for additional requirements.

### 3.03 Warranty

- A. Refer to Section 27 00 00 for additional requirements.
- B. The Contractor shall provide to the Owner a manufacturer's 15 year minimum warranty certificate for all materials, equipment, etc. Upon successful completion of the installation and subsequent inspection, the Owner shall receive the numbered certificate from the manufacturing connectivity hardware (patch panels, jacks, patch cords 110 blocks, etc.) company registering the installation. This warranty shall include all labor, materials, and travel time.
- C. The warranty shall ensure against product defects and guarantee that all approved cabling components exceed the specifications of TIA/EIA-568-C and ISO/IEC IS 11801 for cabling links/channels, and that the installation will exceed the loss and bandwidth requirements of TIA/EIA 568-C ISO/IEC IS 11801 for fiber links/channels for a fifteen (15) year period. The warranty shall apply to all passive structured cabling system components.
- D. The warranty shall cover the failure of the wiring system to support the application that it was designed to support, as well as additional application(s) introduced in the future by recognized standards or user forums that use the TIA/EIA 568-C or ISO/IEC IS 11801 component and link/channel specifications for cabling. Such warranty shall apply for a minimum of a fifteen (15) year period.
- E. The warranty shall cover the replacement or repair of defective product(s) and labor for the replacement or repair of such defective products(s), labeling of the new components, and testing of the circuit(s) at no cost to the Owner.

### 3.04 Examination

- A. Verification of Conditions: Contractor shall examine areas and conditions under which work is to be performed and identify conditions detrimental to proper and timely completion.
- B. Contractor shall verify that cable lengths comply with published standards.
- C. Contractor shall notify Owner of any proposed installation which is expected to exceed maximum lengths prior to installation of cable.
- D. Contractor shall consult with Owner regarding alternative routing or location of cable.
- E. Contractor shall not proceed until unsatisfactory conditions have been corrected.

### 3.05 Cooperation

- A. The Contractor shall cooperate with other trades and General Contractor's personnel in locating work in a proper manner.

- B. Should it be necessary to raise, lower, or move longitudinally any part of the work to better fit the general installation, such work shall be done at no extra cost to the Owner, provided such decision is reached prior to actual installation. The Contractor shall check location of electrical outlets with respect to other installations before installing.

### 3.06 Testing and Acceptance

- A. The Contractor shall perform acceptance tests as indicated below for each subsystem (backbone, station, etc.) as it is completed.
- B. The Contractor shall supply all equipment and personnel necessary to conduct the acceptance tests. Prior to testing, the Contractor shall provide a summary of the proposed test plan for each cable type, including equipment to use, setup, test frequencies or wavelengths, results format, etc. The Consultant will approve the method of testing.
- C. The Contractor shall visually inspect all cabling and termination points to ensure that they are complete and conform to the wiring pattern defined herein. The Contractor shall provide the Consultant with a written certification that this inspection has been made.
- D. The Contractor shall conduct acceptance testing according to a schedule coordinated with the Consultant. Representatives of the Owner may be in attendance to witness the test procedures. The Contractor shall provide a minimum of one (1) week advance notice to the Consultant and Owner to allow for such participation. The notification shall include a written description of the proposed conduct of the tests, including copies of blank test result sheets to be used.
- E. Tests related to connected equipment of others shall be done only with the permission and presence of Contractor involved. The Contractor shall ascertain that testing only as required to prove the wiring connections are correct.
- F. The Contractor shall provide Consultant with test results and descriptions of the testing methodology, including the date of the tests, the equipment used, and the procedures followed. At the request of the Consultant, the Contractor shall provide copies of the original test results.
- G. All cabling shall be 100% fault free unless noted otherwise. If any cable is found to be outside the specification defined herein, that cable and the associated termination(s) shall be replaced at the Contractor's expense. The applicable tests shall then be repeated.
- H. Backbone voice cables shall be free of shorts within the pairs and be verified for continuity, pair validity and polarity, and conductor position on the termination blocks (e.g., 110). Any mispositioned pairs shall be identified and corrected. The percentage of "bad" pairs shall not exceed 1% in any backbone (riser or tie) cable based on total pair count. All bad pairs shall be identified and documented.

- I. The Consultant or Owner may request that a 10% random field re-test be conducted on the cable system to verify documented findings.
    1. If requested, the Contractor shall test up to 10% of cable links at no cost to the Owner.
    2. Tests shall be a repeat of those defined above and under Testing and Acceptance. If findings contradict the documentation submitted by the Contractor, additional testing shall be performed to the extent determined necessary by the Consultant, including a 100% re-test. This re-test shall be at no additional cost to the Owner.
- 3.07 Fire Stopping
- A. Contractor shall seal any openings created for cable pass-through between floors or through fire rated walls. Sealing material and application of this material shall be accomplished in such a manner that is acceptable to the local fire and building authorities having jurisdiction over this work.
  - B. Creation of such openings as are necessary for cable passage between locations as shown on the Drawings shall be the responsibility of the Contractor. Any openings created by or for the Contractor and left unused shall also be sealed as part of this work.

### **End of Section**



General Decision Number: IA160074 01/22/2016 IA74

Superseded General Decision Number: IA20150074

State: Iowa

Construction Type: Building

County: Marshall County in Iowa.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.15 for calendar year 2016 applies to all contracts subject to the Davis-Bacon Act for which the solicitation was issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.15 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2016. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Modification Number	Publication Date
0	01/08/2016
1	01/22/2016

ASBE0074-006 08/01/2015

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR, Excluding Duct Insulation.....	\$ 26.15	16.51
Hazardous Material Handler/asbestos removal worker (Includes preparation, wetting, stripping, removal, scrapping, vaccuming, bagging, and disposal of all insulation materials, whether they contain asbesos or not, from mechanical systems).....	\$ 20.50	10.40

BOIL0083-003 01/01/2012

	Rates	Fringes
BOILERMAKER.....	\$ 32.31	25.46

BRIA0028-005 05/05/2013

	Rates	Fringes
BRICKLAYER.....	\$ 23.60	10.33

CARP0106-010 05/01/2014

	Rates	Fringes
CARPENTER		
Drywall Hanging Only.....	\$ 25.28	11.26
Overhead Door Installation Only.....	\$ 26.73	11.26

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ELEC0347-008 06/01/2015

	Rates	Fringes
ELECTRICIAN (Including Low Voltage Wiring For Alarms).....	\$ 33.78	14.25

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\* ELEV0033-001 01/01/2016

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 41.26	30.285

FOOTNOTE:

a) Employer contributes 8% of basic hourly rate for over 5 years service and 6% of basic hourly rate for under 5 years service as Vacation Pay Credit.

b) Eight Paid Holidays - New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day and Christmas Day.

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ENGI0234-027 05/01/2013

	Rates	Fringes
Power equipment operators:		
Crane.....	\$ 25.70	13.40
Forklift.....	\$ 24.32	13.40
Grader/Blade.....	\$ 21.99	13.40
Paver.....	\$ 24.32	13.40
Roller.....	\$ 21.99	13.40

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IRON0067-009 05/01/2013

	Rates	Fringes
IRONWORKER, STRUCTURAL AND REINFORCING.....	\$ 23.71	17.53

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LABO0177-006 05/01/2014

	Rates	Fringes
LABORER		
Mason Tender - Brick.....	\$ 22.82	9.63

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PAIN0246-006 05/01/2013

	Rates	Fringes
Painters:		
Brush.....	\$ 23.40	10.06

Roller.....	\$ 23.40	10.06
Spray.....	\$ 23.90	10.06

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 PLUM0033-020 06/01/2013

	Rates	Fringes
PIPEFITTER, Excludes HVAC		
Pipe Installation.....	\$ 29.86	18.49
PLUMBER (HVAC Pipe		
Installation Only).....	\$ 29.86	18.49

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 ROOF0142-005 06/01/2012

	Rates	Fringes
ROOFER.....	\$ 22.79	10.61

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 SHEE0045-011 06/01/2011

	Rates	Fringes
SHEET METAL WORKER (HVAC Duct		
Installation Only).....	\$ 30.12	14.55

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 SUIA2008-070 10/28/2008

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST		
INSULATOR (Duct Insulation		
Only).....	\$ 15.48	0.00
CARPENTER (Form Work Only).....	\$ 16.26	2.83
CARPENTER, Excludes Drywall		
Hanging, Form Work, and		
Overhead Door Installation.....	\$ 15.13	1.42
CEMENT MASON/CONCRETE FINISHER...	\$ 13.65	0.26
GLAZIER.....	\$ 16.82	5.03
LABORER: Common or General.....	\$ 10.82	1.30
LABORER: Landscape.....	\$ 9.50	0.00
LABORER: Mason Tender -		
Cement/Concrete.....	\$ 10.23	2.22
OPERATOR: Backhoe/Excavator.....	\$ 14.39	3.65
OPERATOR: Bobcat/Skid		
Steer/Skid Loader.....	\$ 15.63	5.53
OPERATOR: Bulldozer.....	\$ 17.82	5.04
OPERATOR: Loader.....	\$ 14.44	0.29
OPERATOR: Screed.....	\$ 12.26	0.27
OPERATOR: Tractor.....	\$ 15.00	0.29

PLUMBER, Excludes HVAC Pipe Installation.....	\$ 12.04	3.86
SHEET METAL WORKER, Excludes HVAC Duct Installation.....	\$ 15.99	3.22
TRUCK DRIVER: Dump Truck.....	\$ 13.80	3.46

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WELDERS - Receive rate prescribed for craft performing  
operation to which welding is incidental.

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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 clauses  
(29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification  
and wage rates that have been found to be prevailing for the  
cited type(s) of construction in the area covered by the wage  
determination. The classifications are listed in alphabetical  
order of "identifiers" that indicate whether the particular  
rate is a union rate (current union negotiated rate for local),  
a survey rate (weighted average rate) or a union average rate  
(weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed  
in dotted lines beginning with characters other than "SU" or  
"UAVG" denotes that the union classification and rate were  
prevailing for that classification in the survey. Example:  
PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of  
the union which prevailed in the survey for this  
classification, which in this example would be Plumbers. 0198  
indicates the local union number or district council number  
where applicable, i.e., Plumbers Local 0198. The next number,  
005 in the example, is an internal number used in processing  
the wage determination. 07/01/2014 is the effective date of the  
most current negotiated rate, which in this example is July 1,  
2014.

Union prevailing wage rates are updated to reflect all rate  
changes in the collective bargaining agreement (CBA) governing  
this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that  
no one rate prevailed for this classification in the survey and  
the published rate is derived by computing a weighted average  
rate based on all the rates reported in the survey for that  
classification. As this weighted average rate includes all  
rates reported in the survey, it may include both union and

non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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#### WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION