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**ADDENDUM NO. 1**

For Project: **THE EASTERN IOWA AIRPORT  
2011 PAGING SYSTEM REPLACEMENT  
CEDAR RAPIDS IOWA**

Architect's Commission No.: FIE1102

Owner: The Cedar Rapids Airport Commission  
2515 Arthur Collins Parkway SW  
Cedar Rapids, Iowa 52404-8951

This Addendum is added to and shall become a part of the Contract Documents dated December 12, 2011. Bidders shall acknowledge receipt of this Addendum in their Bid Form. Failure to comply may result in rejection of the Bid.

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**NOTE: THE BID DATE HAS NOT BEEN CHANGED.  
THE BID TIME HAS NOT BEEN CHANGED.**

**THE BID DATE IS: January 13, 2012  
THE BID TIME IS: 2:00 PM**

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**PROJECT MANUAL**

Prebid Conference Meeting Minutes and Sign-in Sheets are attached to this addendum for the bidders information.

**SECTION 00410 – PROPOSAL FORM**

1. **The proposal form has been revised. The revised proposal form is attached to this addendum.**

**SECTION 00430 – BID BOND**

2. The section was omitted from the project manual and is attached to this addendum.

**SECTION 01210 – ALLOWANCES**

3. At Article 3.3 Schedule of Allowances, add the following:

“B. Allowance No. 01210-2: Include a Lump Sum Allowance for additional work as directed by the Project Manager, for Ethernet Switches, for the amount as indicated on the Bid Form.”

“C. Allowance No. 01210-3: Include a Lump Sum Allowance for additional work as directed by the Project Manager, for Public Safety Paging Circuit & Equipment as indicated on the Bid Form.”

## DRAWINGS

### SHEET G100 (Overall Floor Plan, Phasing Notes)

1. This sheet is incorrectly number G103 in the lower right corner. This sheet should be numbered G100 as indicated on the index on sheet G000.

## TECHNOLOGY ADDENDUM

### PROJECT MANUAL

#### SECTION 17820 - PUBLIC ADDRESS SYSTEMS

1. **REVISE** Paragraph 3.10 D.1 to read as follows:
  1. Provide two (2) day manufacturer training for two (2) TEIA staff at manufacturer's training facility. Provide accommodations for two-day, three-night stay including round trip airfare, meals, lodging, etc.

## DRAWINGS – TECHNOLOGY

### SHEET T100

1. **REMOVE** "T500 SCHEDULES AND DETAILS – PAGING" from Sheet Index list.

### SHEET T211

1. **REVISE** Keynote #5 to read as follows: "Contractor provided and owner installed (1) one VoIP Telephone at each ticket counter. Contractor shall verify quantities." as shown on supplemental drawing ADD1.T1.
2. **ADD** Keynote #6 to read as follows: "Install paging microphone in existing casework. Route cabling through existing power pole, up to above accessible ceiling." as shown on supplemental drawing ADD1.T1.
3. **REVISE** keynote symbol from #1 to #6 at information booth as shown on supplemental drawing ADD1.T1

### SHEET T213

1. **ADD** Keynote #6 to read as follows: "Install microphone in existing casework. Route mic cable through casework to nearest wall and up to above accessible ceiling." as shown on supplemental drawing ADD1.T2
2. **ADD** Keynote #7 to read as follows: "Contractor provided and Owner installed VoIP telephone." as shown on supplemental drawing ADD1.T2
3. **ADD** five (5) paging stations [PS] and five (5) VoIP telephones [VOIP] and keynote symbols #6 and #7 to rental car counters as shown on supplemental sketch ADD1.T2.

SHEET T400

1. **REVISE** Keynote #12 as shown on sheet T400.
2. **REVISE** Keynote #18 as shown on sheet T400.
3. **ADD** Keynote #19 and keynote #20 as shown on sheet T400.
4. **REVISE** Safety Building, Zone 7 scope as shown on paging riser diagram sheet T400.
5. **REVISE** Paging Zone 6 and Zone 4 as shown on paging riser diagram sheet T400.

SHEET T600

2. **REVISE** Materials List Item # 2 as shown on supplemental Sketch ADD1.T4

SHEET T923

3. **ADD** five (5) mic demo symbols [mic] to rental car counters as shown on supplemental sketch ADD1.T3

**SUPPLEMENTAL TECHNOLOGY DRAWINGS**

1. Additional Supplemental Technology Drawings (8.5x11): Three (3) drawings **ADD 1.T1, ADD1.T2, ADD1.T3, ADD1.T4** and one (1) sheet **T400**.

**PRE-BID QUESTIONS**

The following is a list of questions received. Answers are provided

- 1) **Q: Do all existing speakers stay in place until the new system is complete?**  
*A: Yes. Please refer to the Paging System Phasing Plan on sheet T100.*
- 2) **Q: What Text-To Speech languages are required?**  
*A: Text to speech not required for project.*
- 3) **Q: Where will the Text-To-Speech client computer(s) be located?**  
*A: Text To Speech not required for project.*  
**Q: Is this the same computer as the paging station workstation?**  
*A:Text to Speech not required for project.*
- 4) **Q: Are background music inputs required?**  
*A: Auxiliary audio inputs are required to support Owner provided and installed audio sources.*  
**Q: If so, how many and where will the sources be located?**  
*A: Six audio input channels. Refer to Materials List on sheet T600.*
- 5) **Q: Will Internet connectivity be available at system location for remote support and updates?**  
*A: Yes*
- 6) **Q: Are PoE switches or standard switches and PoE injectors preferred?**  
*A: No preference*
- 7) **Q: Can Enterprise Cisco PoE switches with fiber GBIC's be approved for the paging network?**  
*A: Products shall meet or exceed basis of design specifications. Products chosen shall be submitted for review with the shop drawing submittals.*

- 8) **Q: Can Atlas speakers and volume controls be approved where Quam and Lowell are listed if they meet the requirements?**  
*A: No. Quam and Lowell are the only approved manufacturers accepted.*
- 9) **Q: Can Atlas equipment racks and power products be approved if they meet the requirements?**  
*A: Products shall meet or exceed basis of design specifications. Products chosen shall be submitted for review with the shop drawing submittals.*
- 10) **Q: Is there a list of required pre-recorded messages?**  
*A: Audio file of prerecorded messages will be provided by the Airport and given to the Contractor to be loaded onto the message server.*
- 11) **Q: What wattage are speakers to be tapped (for figuring amplifier loads)?**  
*A: 5 watts.*
- 12) **Q: Are gate counter microphone stations to be desktop or wall (cabinet) mounted?**  
*A: Gate counter microphone stations shall be either wall mounted or desktop mounted depending on the counter location. Refer to floor plan drawings for requirements and additional information.*
- 13) **Q: Please provide required Avaya VoIP phone model numbers.**  
*A: Phones are provided under Allowance amount indicated on bid form. Specific models will be specified during construction.*
- 14) **Q: Please provide required Avaya Switch model numbers.**  
*A: Switches are provided under Allowance amount indicated on bid form. Specific models will be specified during construction.*
- 15) **Q: Will there be any future need for visual paging?**  
*A: Paging system shall have the ability to interface with the Airport's existing Flight Information Display system.*

END OF ADDENDUM NO. 1



## Pre-Bid Meeting Minutes

Date: January 4, 2012

Project: The Eastern Iowa Airport - Terminal Building - 2011 Paging System Replacement

Location: The Eastern Iowa Airport Administration Building

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**1) Welcome and Introductions** – *A sign in sheet was circulated for all attendees to sign. The sign in sheet is attached to these minutes.*

**2) General Project Overview**

- a) Scope of Project
  - i) Paging System Replacement – *The existing paging system in the terminal is 25-years old and has lost most of the intended functionality.*
- b) Bidding Schedule
  - i) Letting Date – *Friday January 13, 2012, 2:00 PM*
  - ii) Bid Requirements
    - (1) Standard Form of Bid
    - (2) Acknowledgement of Addenda
    - (3) Bid Bond (separate envelope)
    - (4) Qualifications/References
- c) Construction Schedule
  - i) Start Date – *April 2, 2012*
  - ii) Completion Date – *August 3, 2012*
  - iii) *Phasing plan, Sheet G103, indicates areas with additional timeline and coordination requirements*
- d) Additional Requirements
  - i) No Davis Bacon wages
  - ii) *Coordination with other projects/contractors onsite will be required.*
  - iii) *Nightwork is required for this project.*

**3) Airport Security Requirements** – *Badging of all personnel working on the project will be required. Timeline and costs can be found in Special Provision C, Item 10.*

*Night work is also required on the project as maintaining airport operations and safety of passengers and workers is of significant importance. Scheduling of work with the airport and Foth will be required.*

**4) Q&A**

*Addendum – Addendum #1 will be issued Friday January 6th. Addendum will be posted on the Airport's website.*

*Questions – Questions/Clarifications to be sent to Eric Scott no later than 10:00 AM January 6th.*

**5) Site Visit** – *There was a site walkthrough of the project following the meeting.*



**THE EASTERN IOWA AIRPORT**  
CEDAR RAPIDS



**Pre-Bid Meeting  
January 4, 2012, 1:00 PM  
SIGN IN SHEET**

NAME	FIRM	PHONE NUMBER	EMAIL	INITIALS
Tim Bradshaw	TEIA	319.362.3131	<a href="mailto:t.bradshaw@crairport.org">t.bradshaw@crairport.org</a>	
Don Swanson	TEIA	319.362.3131	<a href="mailto:d.swanson@crairport.org">d.swanson@crairport.org</a>	
Sara Mau	TEIA	319.362.3131	<a href="mailto:s.mau@crairport.org">s.mau@crairport.org</a>	
Eric Scott	FOTH	319-365-9565	<a href="mailto:Eric.Scott@foth.com">Eric.Scott@foth.com</a>	
Nate Lawrence	ECS	563-445-4390	<a href="mailto:nlawrence@ecsdav.com">nlawrence@ecsdav.com</a>	
Jayson Schwallie	Tri-City Electric	563-823-1683	<a href="mailto:jschwallie@tricityelectric.com">jschwallie@tricityelectric.com</a>	
Marvin Smejkal	Sound Concepts	319-366-7357	<a href="mailto:marvin@soundconceptsinc.net">marvin@soundconceptsinc.net</a>	
Ben Lensing	CEC	319-731-1296	<a href="mailto:blensing@cecinfo.com">blensing@cecinfo.com</a>	
Dave Moriarty	IED	317-773-5207	<a href="mailto:dmoriarty@iedaudio.com">dmoriarty@iedaudio.com</a>	
John Bodensteiner	Price Industrial Elect.	319-393-6406	<a href="mailto:johnb@priceindustrial.com">johnb@priceindustrial.com</a>	
Matt Shultz	Neumiller Electric	319-665-9036	<a href="mailto:shultz@neumillerelectric.com">shultz@neumillerelectric.com</a>	

**SECTION 00410  
 BID FORM**

The undersigned bidder has carefully examined the work described herein, has become familiar with the character and extent of the work; has carefully examined the Specifications which are acknowledged to be a part of this Invitation for Bid, the Bid form, the form of Contract, and the form of Contract Bond; and thoroughly understands their stipulations, requirements and provisions.

The undersigned bidder has determined the quality and quantity of materials required; determined the sources of supply of the materials required; has investigated labor conditions; and has arranged for the continuous prosecution of the work herein described.

The undersigned bidder hereby agrees to be bound by the award of the Contract and, if awarded the Contract on this Bid, to execute within ten (10) days after notice of award, the required Contract and the required Contract Bonds, of which Contract this Bid and the Specifications shall be a part.

The undersigned bidder further agrees to provide all necessary equipment, tools, labor, incidentals and other means of construction to do all the work, and furnish all the materials of the specified requirements which are necessary to complete the work in accordance with the Bid and the Specifications.

The undersigned bidder declares that this Bid is made without connection with any other person or persons making Bids for the same work, and is in all respects fair and without collusion or fraud.

The work proposed to be accomplished under this project consists of the construction of the **TEIA - 2011 Paging System Replacement**.

In submitting this bid, the bidder has examined copies of all the bid documents and the following Addenda (receipt of which is hereby acknowledged);

DATE OF ADDENDA	ADDENDUM NUMBER
_____	_____
_____	_____

**Base Bid (Divisions 0-17)**

For all General, Electrical and Technology Construction Lump Sum \$ \_\_\_\_\_  
*(use figures)*

<b>Allowance No.</b>	<b>Item Code</b>	<b>Description</b>	<b>Amount</b>
1	01210-1	VoIP Telephone Devices	\$ 12,000
2	01210-2	Ethernet Switches	\$ 12,000
3	01210-3	Public Safety Paging Circuit & Equipment	\$ 17,000

<b>Unit Price</b>	<b>Description</b>	<b>Quantity</b>	<b>Price</b>	<b>Extension</b>
16010-1	Electrician	40 hrs.	\$ _____ / HR	\$ _____
17010-1	Voice Data Wiring Technician	40 hrs.	\$ _____ / HR	\$ _____

**TOTAL BID (Summation of Lump Sum Base Bid and all of the above Allowance and Unit Price items)**

\_\_\_\_\_  
(state amount using words)

\_\_\_\_\_  
DOLLARS \$ \_\_\_\_\_  
(use figures)

PROPOSAL OF \_\_\_\_\_

FIRM NAME

\_\_\_\_\_  
ADDRESS

\_\_\_\_\_  
CONTACT PERSON

\_\_\_\_\_  
PHONE

**ACKNOWLEDGEMENT**

WITNESS Our Hands and seals this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

Individual ) \_\_\_\_\_  
or ) \_\_\_\_\_  
Partner- ) \_\_\_\_\_  
ship ) \_\_\_\_\_  
Execution ) Co-partners doing business under the name and style of:  
) \_\_\_\_\_  
) \_\_\_\_\_  
) \_\_\_\_\_  
) A Corporation of the State of \_\_\_\_\_

Corporate ) \_\_\_\_\_  
Execution ) \_\_\_\_\_  
) By \_\_\_\_\_  
) \_\_\_\_\_  
) Title \_\_\_\_\_

Corporate ) \_\_\_\_\_  
Seal ) \_\_\_\_\_  
) By \_\_\_\_\_  
) \_\_\_\_\_  
) Title \_\_\_\_\_

NOTE: THIS FORM MUST BE COMPLETED AND SIGNED AS PART OF BID.

Check List for Submittal of Bids

- Signed Standard Form of Bid
- Acknowledgement of Addendums (if applicable)
- Bid Bond/Bid Security (sealed in a separate envelope)
- Qualifications/References (with Bid Bond/Bid Security)

**END OF SECTION**

**SECTION 00430**  
**BID BOND FORM**

KNOW ALL MEN BY THESE PRESENTS:

That we, the undersigned, \_\_\_\_\_ as Principal, and \_\_\_\_\_ a corporation, authorized to do surety business in the State of Iowa, as Surety, are held and firmly bound unto The Eastern Iowa Airport (TEIA), as Obligee, in the sum of \_\_\_\_\_ (\$ \_\_\_\_\_) in lawful money of the United States of America, for the payment of which sum, will and truly to be made, said Principal and Surety bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally, by these presents.

The condition of this obligation is such that, if the Obligee, Cedar Rapids Airport Commission, shall make an award to the Principal of the Agreement for:

[TEIA – 2011 Paging System Replacement](#)

according to the terms of the bid made by the Principal therefore, and the Principal shall duly make and enter into a Contract with the Obligee in accordance with the terms of said bid and award and shall give bonds for the faithful performance thereof, with Surety or Sureties approved by the Obligee; or if the Principal shall in case of its failure to do so, pay to the Obligee the sum hereof as liquidated damages which the Obligee shall suffer by reason of such failure, but not exceeding the penalty of this Bond, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect.

IN WITNESS WHEREOF, we have executed this Bid Bond this \_\_\_\_ day of \_\_\_\_\_, 2012.

Principal

ATTEST:

By: \_\_\_\_\_

Title: \_\_\_\_\_

\_\_\_\_\_  
Corporate Secretary

Surety

By: \_\_\_\_\_

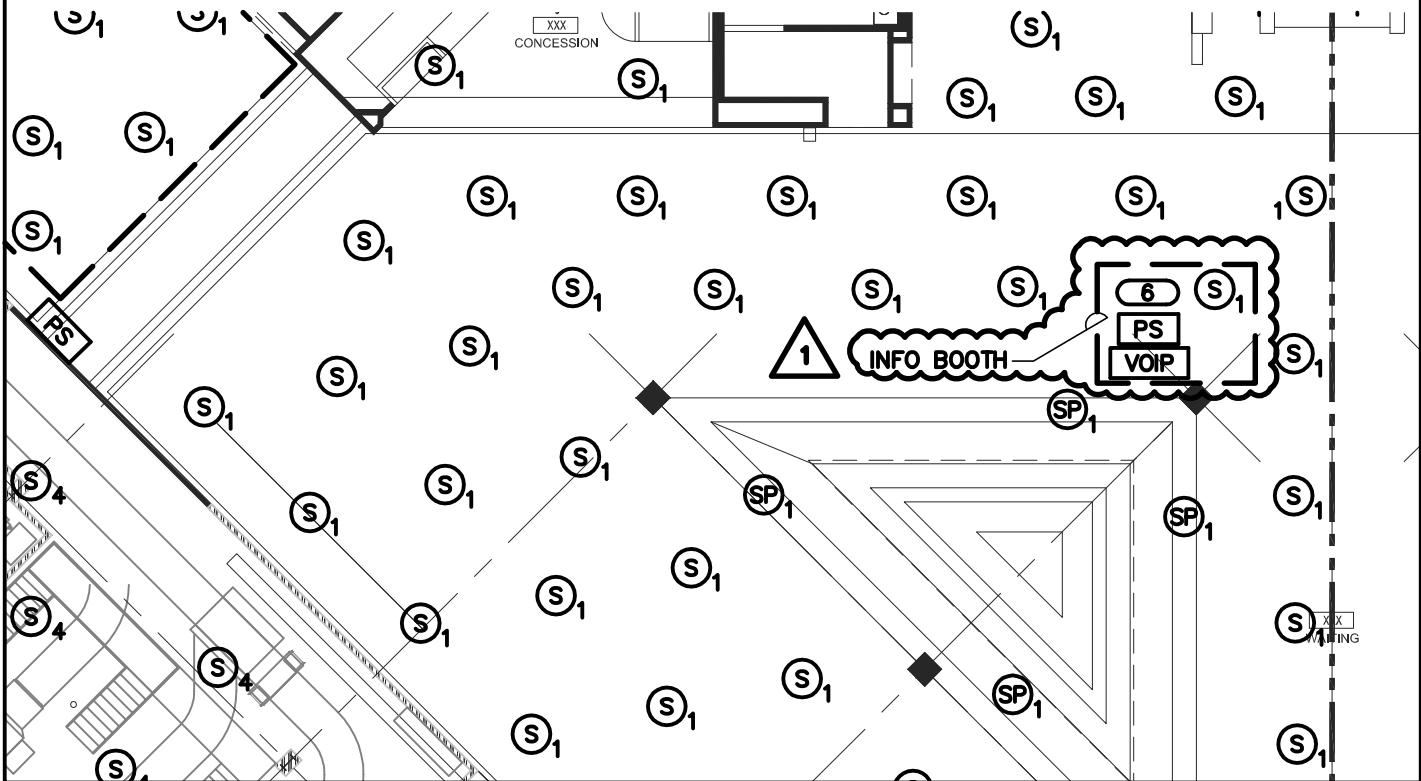
Title: \_\_\_\_\_

**END OF SECTION 00430**

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**KEYNOTES** 

1. INSTALL MICROPHONE IN EXISTING CASEWORK. ROUTE MIC CABLE THROUGH CASE WORK TO NEAREST WALL AND UP TO ABOVE ACCESSIBLE CEILING. PROVIDE AND INSTALL (1) PAGING STATION PER AIRLINE. CONTRACTOR SHALL VERIFY QUANTITIES.
  2. SPEAKER LOCATED IN CEILING BASEMENT LEVEL.
  3. MATCH MOUNTING HEIGHT AND ANGLE OF EXISTING SPEAKERS.
  4. COIL 10' OF SPARE SPEAKER CABLE ON FIRST AND LAST SPEAKER IN THIS AREA TO ACCOMMODATE FUTURE CEILING HEIGHT.
5. CONTRACTOR PROVIDED OWNER INSTALLED (1) ONE VoIP TELEPHONE AT EACH TICKET COUNTER. CONTRACTOR SHALL VERIFY QUANTITIES.
6. INSTALL MICROPHONE IN EXISTING CASEWORK. ROUTE CABLING THROUGH EXISTING POWER POLE UP TO ABOVE ACCESSIBLE CEILING.



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**PROJECT:**  
THE EASTERN IOWA AIRPORT  
BAGGAGE SCREENING AND  
TERMINAL RENOVATIONS  
2515 WRIGHT BROTHERS BLVD. SW  
CEDAR RAPIDS, IA 52404

**CONTR. NO.:** FIE1001  
**DATE:** JANUARY 6, 2012  
**DRAWN:** PHINIE  
**CHECKED:** PHINIE

**DRAWING NUMBER:**

ADD1.T1

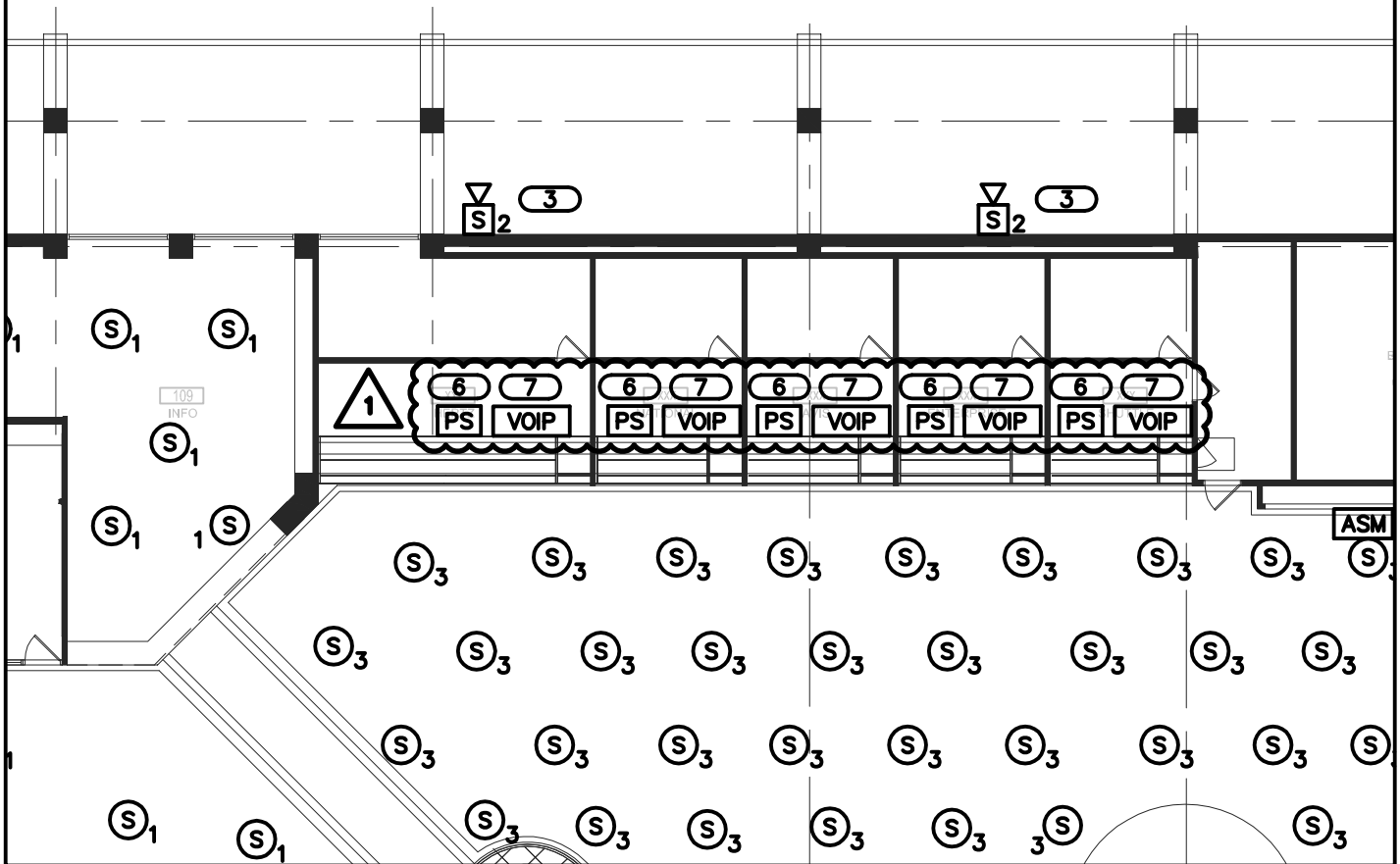
## KEYNOTES

1. SPEAKERS LOCATED IN CEILING OF BASEMENT LEVEL.
2. SPEAKERS LOCATED IN CEILING SOFFIT.
3. MATCH MOUNTING HEIGHT AND ANGLE OF EXISTING SPEAKERS.
4. INSTALL VOLUME CONTROL INTO EXISTING BACKBOX. COORDINATE EXACT LOCATION WITH TSA.
5. PROVIDE 5' SLACK CABLE COIL AT SPEAKER LOCATION TO ACCOMMODATE CONNECTION OF ADDITIONAL FUTURE SPEAKER'S.



6. INSTALL MICROPHONE IN EXISTING CASEWORK. ROUTE MIC CABLE THROUGH CASEWORK TO NEAREST WALL AND UP TO ABOVE ACCESSIBLE CEILING.

7. CONTRACTOR PROVIDED AND OWNER INSTALLED VOIP TELEPHONE.



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**PROJECT:**

THE EASTERN IOWA AIRPORT

BAGGAGE SCREENING AND  
TERMINAL RENOVATIONS  
2515 WRIGHT BROTHERS BLVD. SW  
CEDAR RAPIDS, IA 52404

**CONTR. NO.:**

FIE1001

**DATE:**

JANUARY 6, 2012

**DRAWN:**

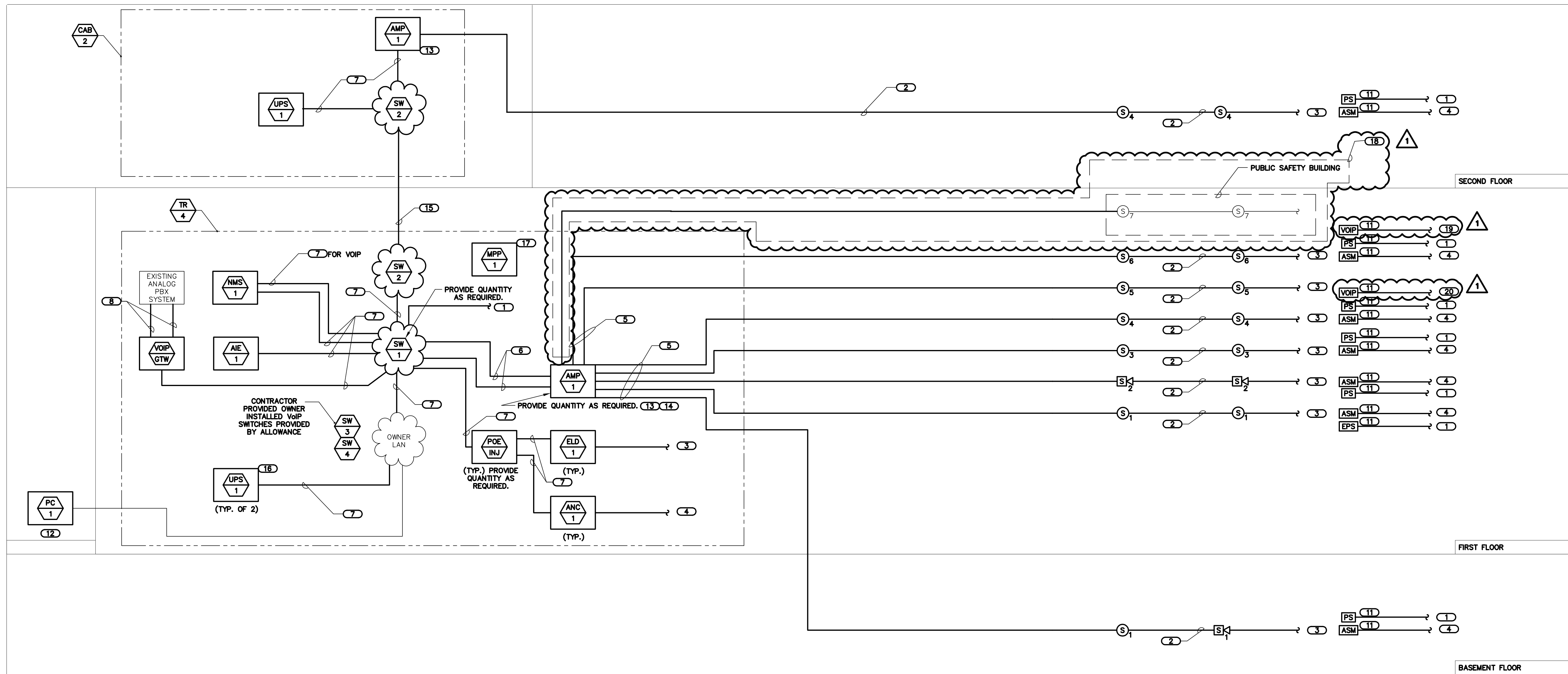
PHINE

**CHECKED:**

PHINE

**DRAWING NUMBER:**

ADD1.T2



# 1 PAGING RISER DIAGRAM

NO SCALE

**NOTES:**  
 1. THIS RISER DIAGRAM IS DIAGRAMMATIC AND MAY NOT REPRESENT ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS FLOW DIAGRAM IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. REFER TO PLANS FOR MORE SPECIFIC ROUTING INFORMATION AND QUANTITIES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. ALL CABLING SHALL BE MANUFACTURER'S RECOMMEND SIZES.

**KEYNOTES:**

- 1 CAT6 UTP PLENUM RATED COBRANET CABLE ROUTED THROUGH POE INJECTOR (POE/INJ) TO (SW/1) LOCATED IN (TR/4).
- 2 NEW 16AWG, 2-CONDUCTOR SHIELDED CABLE TYPICAL OF ALL CABLE BETWEEN SPEAKERS AND BETWEEN LAST SPEAKER AND END OF LINE DEVICE. CABLE SHIELDS SHALL BE CONTINUOUS THROUGHOUT ENTIRE SYSTEM.
- 3 2 CONDUCTOR, 16AWG. CABLE. CONTRACTOR SHALL CONNECT LAST SPEAKER OF EACH ZONE TO END OF LINE DEVICE LOCATED IN (TR/4).
- 4 2-CONDUCTOR, 18AWG. TWISTED, SHIELDED BALANCED AUDIO CABLE ROUTED BETWEEN AUDIO SENSING MICROPHONE [ASM] AND AMBIENT NOISE CONTROLLER (ANC/1).
- 5 NEW 12AWG, 2-CONDUCTOR SHIELDED CABLE TYPICAL OF CABLING TO FIRST SPEAKER. CABLE SHIELDS SHALL BE CONTINUOUS THROUGHOUT ENTIRE SYSTEM.
- 6 CONTRACTOR PROVIDED AND INSTALLED RJ-45 TO RJ-45 CAT6 UTP PLENUM RATED CABLES. ONE CABLE SHALL BE USED AS FOR COBRANET SIGNAL. ONE CABLE SHALL BE USED FOR LAN.
- 7 CONTRACTOR PROVIDED AND INSTALLED RJ-45 TO RJ-45 CAT6 COPPER PATCH CORDS. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
- 8 CAT6 UTP PLENUM RATED CABLE.
- 9 OWNER TO PROVIDE AND INSTALL TELEPHONE MODULE CARDS AS REQUIRED.
- 10 CONTRACTOR SHALL PROVIDED AND INSTALL TERMINAL BLOCKS FOR GROUND. REFER TO 3/T300 FOR ADDITIONAL INFORMATION.
- 11 SYMBOLS ARE TYPICAL REFER TO FLOOR PLANS FOR LOCATIONS AND QUANTITIES.
- 12 CONTRACTOR SHALL PROVIDE AND INSTALL THE COMPUTER, SOFTWARE, AND MONITORING ON THIS COMPUTER. COORDINATE COMPUTER LOCATION WITH TEIA.
- 13 ONE (1) AMPLIFIER CHASSIS WITH SIX (6) 300 WATT AUDIO AMPLIFICATION MODULES TO SERVE SPEAKER ZONE 4.
- 14 ONE (1) AMPLIFIER CHASSIS WITH SEVEN (7) 300 WATT AUDIO AMPLIFICATION MODULES TO SERVE SPEAKER ZONE 1, ONE (1) AMPLIFIER CHASSIS WITH FIVE (5) 300 WATT AUDIO AMPLIFICATION MODULES TO SERVE SPEAKER ZONES 2,3,5,6,7
- 15 (1) 6-STRAND OM1 62.5 MICRON MULTI-MODE ARMORED FIBER OPTIC CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 16 PLUG (1) AMPLIFIER INTO EACH UPS AND DIVIDE UP THE REST OF THE LOAD ACCORDINGLY.
- 17 ROUTE ALL HORIZONTAL CABLING FROM PAGING STATIONS THROUGH PATCH PANEL AND THEN PATCH TO NETWORKING SWITCH, NO HORIZONTAL CABLING SHOULD CONNECT DIRECTLY TO EQUIPMENT.







**KEYNOTES:**

- 18 EXTEND ZONE 7 PAGING CIRCUIT TO PUBLIC SAFETY BUILDING UNDER ALLOWANCE. PROVIDE FIBER CABLE AND CONNECTIVITY IN EXISTING PATHWAY, SWITCH (SW/2), AMPLIFIER (AMP/1), UNINTERRUPTIBLE POWER SUPPLY (UPS/1), WALL MOUNT EQUIPMENT CABINET (CAB/2), AND ALL ASSOCIATED COMPONENTS AND HARDWARE FOR A COMPLETE INSTALLATION.
- 19 PROVIDED AND INSTALL (1) ONE EACH CATEGORY 6 UTP PLENUM RATED CABLE AT BOARDING GATES B1 AND B2 (ZONE 6) AND ROUTED TO AIRPORT EQUIPMENT RACK LOCATED IN (TR/4). PROVIDE 20" CABLE COIL AT ALL LOCATIONS FOR FUTURE TERMINATION BY OTHERS. CABLE RESERVED FOR VOIP COMMUNICATIONS.
- 20 PROVIDED AND INSTALL (1) ONE EACH CATEGORY 6 UTP PLENUM RATED CABLE AT BOARDING GATES C5 AND C6 (ZONE 4) AND ROUTED TO AIRPORT EQUIPMENT RACK LOCATED IN (TR/4). PROVIDE 20" CABLE COIL AT ALL LOCATIONS FOR FUTURE TERMINATION BY OTHERS. CABLE RESERVED FOR VOIP COMMUNICATIONS.

PAGING ZONE MATRIX	
SPEAKER ZONE #	ZONE AREA
1	LANDSIDE
2	CURBSIDE / PARKING
3	BAGGAGE CLAIM
4	SECURE AREA / "C" CONCOURSE
5	SECURITY CHECK POINT
6	"B" CONCOURSE
7	PUBLIC SAFETY BUILDING

**K J W W ENGINEERING CONSULTANTS**  
 623 26th AVENUE  
 ROCK ISLAND, IL 61201  
 309.788.0673 FAX: 309.786.5967  
 www.kjww.com  
 PROJECT #11.0258.00  
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 REFERENCE SCALE IN INCHES  
 0 1 2 3

CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

ITEM NO.	SYMBOL	DESCRIPTION	APPROVED MANUFACTURERS
1		MODULAR PATCH PANEL, 48 MODULAR RJ-45 TERMINATIONS, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK, PORT IDENTIFICATION NUMBERS, PROVIDED WITH COLOR CODING AND LABEL HOLDER KITS, U.L. LISTED. REQUIRES (2) 1.75" MOUNTING SPACES.	PANDUIT PATCH PANEL CPPL48WBL
2		DESKTOP OR WALL MOUNTED NETWORKED PAGING STATION. PUSH TO TALK BUTTON WITH STATUS INDICATION, 999 USER-CONFIGURABLE PAGE CODES, 4 PRIORITY LEVELS AND 4 EMERGENCY PRIORITY LEVELS, LOCAL DIGITAL SIGNAL PROCESSING, EMBEDDED DSB AND ON BOARD MEMORY, LOCAL STORAGE, BUILT IN STORE AND FORWARD FUNCTIONALITY, COBRANET AUDIO/CONTROL, BACKLIT LCD DISPLAY, NOISE CANCELING HANDHELD MICROPHONE.	BIAMP WALL MOUNT WS-10 DESKTOP DS-10
3		WALL MOUNTED NETWORKED EMERGENCY PAGING STATION. CERTIFIED FOR USE IN AN EN 54-16 COMPLIANT LIFE SAFETY SYSTEM. PUSH TO TALK BUTTON WITH STATUS INDICATION, 999 USER-CONFIGURABLE PAGE CODES, 4 PRIORITY LEVELS AND 4 EMERGENCY PRIORITY LEVELS, LOCAL DIGITAL SIGNAL PROCESSING, EMBEDDED DSP AND ON BOARD MEMORY, LOCAL STORAGE, BUILT IN STORE AND FORWARD FUNCTIONALITY, COBRANET AUDIO/CONTROL, BACKLIT LCD DISPLAY, NOISE CANCELING HANDHELD MICROPHONE.	IED PEAVEY
4		RACK MOUNTED NETWORK MULTI-CHANNEL AMPLIFIER. AMPLIFICATION MODULES WITH SOFTWARE CONFIGURABLE POWER LEVELS/LOAD OPTIONS. 8 AMPLIFICATION MODULES PER FRAME WITH 100 TO 600 WATTS PER MODULE (MAXIMUM OF 2400W PER CHASSIS). 70V OR 100V DIRECT DRIVE CAPABILITY, OR LOW IMPEDENCE 4 OHM OR 8 OHM OPERATION. FAILOVER CAPABILITY BETWEEN CHANNELS AND AMPLIFIERS. LOCAL NON VOLATILE MEMORY. LED INDICATION, SOFTWARE MONITORING, SOFTWARE CONFIGURABLE SIGNAL PROCESSING, COBRANET AUDIO/CONTROL. DUAL ETHERNET PORTS FOR REDUNDANCY, TERMINAL BLOCK CONNECTORS FOR SPEAKER WIRING.	BIAMP AMP CHASIS VA-8600  AMP MODULES AM-600C
5		3RU RACK MOUNTABLE. 120VAC. CONTRACTOR SHALL PROVIDE (1) POWER AMP MODULE PER ZONE.	IED PEAVEY
6		RACK MOUNT NETWORKED AUDIO INPUT EXPANSION DEVICE. SIX AUDIO INPUT CHANNELS. 4 - DUAL RCA CONNECTORS PLUS TERMINATION BLOCK CONNECTORS FOR LINE LEVEL INPUTS. 4-CONTROL INPUTS AND 4-CONTROL OUTPUTS. 2-MICROPHONE / LINE INPUTS WITH PHANTOM POWER. SOFTWARE CONFIGURABLE LOCAL AUDIO SIGNAL PROCESSING. COBRANET AUDIO/CONTROL POWER OVER ETHERNET VIA CAT5 RJ-45 JACK. 1 RU RACK MOUNTABLE.	BIAMP VI-6  IED PEAVEY
		RACK MOUNT MESSAGE SERVER. RECORDED MESSAGE STORAGE AND PLAYBACK, EVENT SCHEDULING, STORAGE OF LOGGED SYSTEM DATA, VOIP PAGING INTERFACE,	BIAMP MS-1

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PROJECT:

THE EASTERN IOWA AIRPORT

BAGGAGE SCREENING AND  
TERMINAL RENOVATIONS

2515 WRIGHT BROTHERS BLVD. SW  
CEDAR RAPIDS, IA 52404

CONC. NO.:

FIG1001

DATE:

JANUARY 6, 2012

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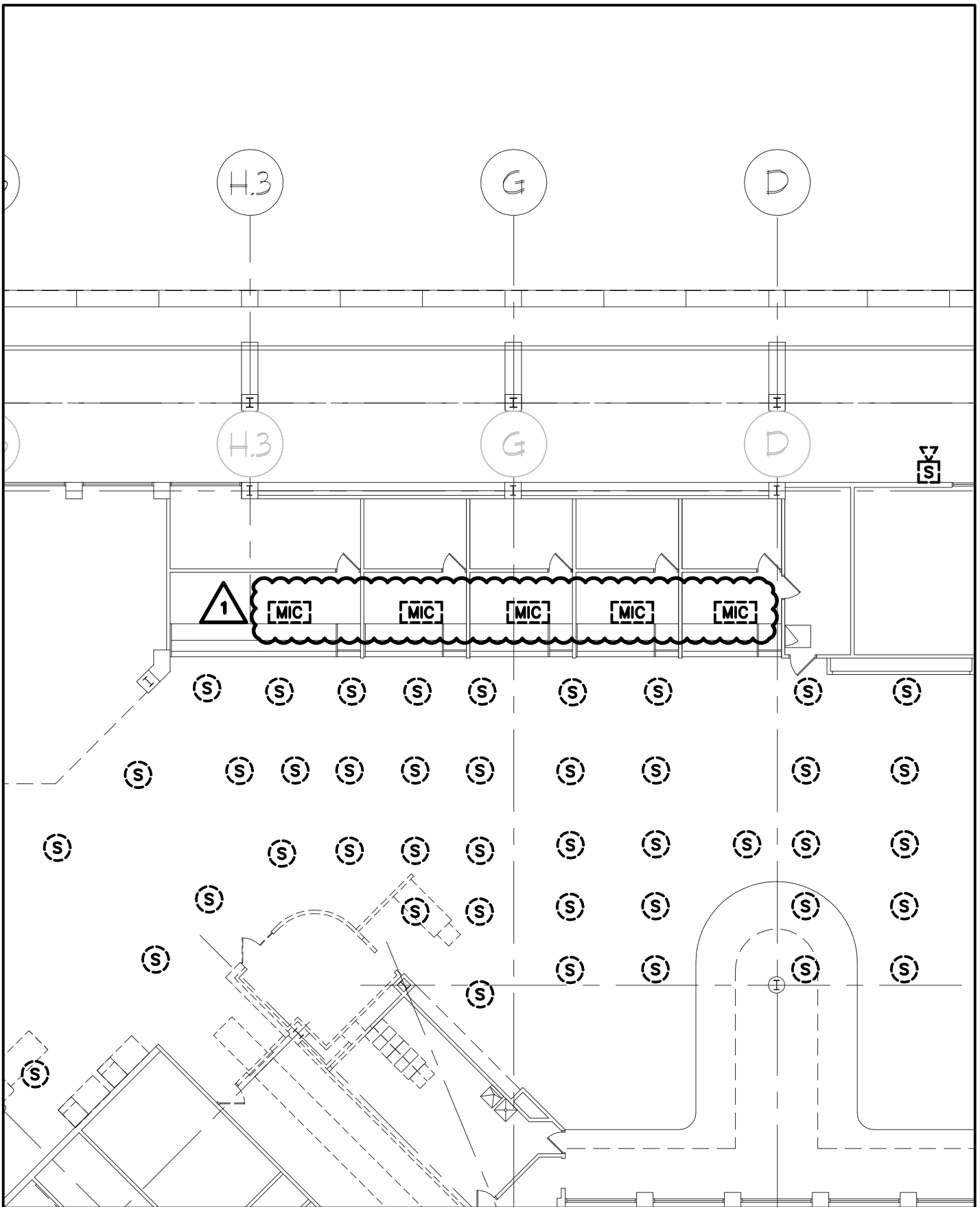
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