

BOONE COUNTY, MISSOURI Request for Bid #: 44-11DEC14 – Emergency Communications Center

ADDENDUM #6 - Issued December 18, 2014

This addendum is issued in accordance with the Introduction and General Conditions of Bidding in the Request for Bid and is hereby incorporated into and made a part of the Request for Bid Documents. Bidders are reminded that receipt of this addendum should be acknowledged and submitted with Bidder's *Response Form*.

Specifications for the above noted Request for Bid and the work covered thereby are herein modified as follows, and except as set forth herein, otherwise remain unchanged and in full force and effect:

GENERAL

- 1. Revised Bid Form (Issued in Addendum #1):
 - a. Under Unit Prices the line item for "Underground Gas Piping-(Section 221005 and 312000)" should be listed with amounts of "N/A". There is no gas piping for the project.
 - b. The bid form requires a listing of all sub-contractors either on the form or with an attached list. The bid form must contain listings for the following sub-contractors: HVAC, Plumbing, Electrical and Technology. Boone County will accept a revised list containing all sub-contractors and references within 24 hours following the bid deadline.

QUESTIONS AND ANSWERS

- 1. The finish legend does not have plastic laminate or Solid Surface color do we know what these are?

 RESPONSE: Colors are to be selected by the Architect following award.
- 2. When the drawings refer to Solid Surface are they referring to Cambria?

RESPONSE: Any Reference to Solid Surface is referring to the Cambria product.

- 3. Specs call for laminate core color to be same as decorative surface. Do they want "Color Core"?

 RESPONSE: This should be the manufacturer's standard core color.
- 4. Should we bid any materials in Storage 134, Coats 103, Closet 169, Storage 173, Pantry 178, General Storage 173, or Kitchen Storage 179?

<u>RESPONSE</u>: No shelves or casework in the following: Storage 134, Closet 169, Storage 173, Pantry 178, General Storage 180, or Kitchen Storage 179. There is a shelf and rod in Coats 103-See attached drawings for details.

5. Plan on sheet A-1.03 seems to show casework in room 119 on the south wall. Is there any casework at this location? If so are there any details or elevation available?

RESPONSE: See attached drawings for details.

6. Is there a detail of the Coat Rack Corridor 150?

RESPONSE: See attached drawings for details.

7. Previously in addendum 5 a question was answered regarding vapor barriers: "S101 Notes slab on grade to be placed over 15 mil vapor barrier. Details A301 call out waterproofing membrane under slabs. Please clarify what is to be provided." the response below clarifies that item.

<u>RESPONSE</u>: Provide 15 mil vapor barrier under on-grade slabs per S101. Structural and Architectural Details referencing waterproofing membrane <u>under slabs</u> should be revised to read 15 mil vapor barrier.

Vapor barriers should be installed from the inside edge of the slab at the face of the foundation or pre-cast wall continously under the concrete floor slab. All details for below grade conditions that indicate waterproof membrane remain as is-this would include all below grade basement walls and exterior walls surrounding depressed slabs. All references or notes indicating vapor barriers on the exterior side of foundations or pre-cast wall panels should be omitted.

SPECIFICATIONS

- 1. Section 01 2200 Unit Prices: 1.07 Schedule of Unit Prices. Delete Item I.
- 2. Section 06 2000 Finish Carpentry: Add the following to the Specification:

2.07 HARDWARE

- A. Hardware: Comply with BHMA A156.9.
- B. Shelf and Rod Brackets: Knape & Vogt, 1198BP CHR 12 Extra-Duty Fixed Rod & Shelf Bracket, Chrome; www.knapeandvogt.com
 - 1. One piece-Install full width of shelf.
- C. Round Closet Rod: Knape & Vogt, 770 5 CHR, 1-5/16" Extra Duty Chrome Rod; www.knapeandvogt.com.
- D. Wall Mount Flange Brackets for Rod Ends: Knape & Vogt, 764 CHR and 766 CHR Extra Duty wall mount flanges for rod ends. www.knapeandvogt.com.
- E. Wall Standards: Knape & Vogt, 85 Series Heavy duty Commercial Grade Standards, Anochrome; www.knapeandvogt.com. Mount standards at 24" O.C.
- F. Shelf Bracket for Standards: Knape & Vogt, 185 Series Heavy Duty Commercial Grade Brackets, 14", Anochrome; www.knapeandvogt.com.
- G. Provide blocking in wall for all attachments.
- H. Substitutions: See Section 016000 Product Requirements.
- 3. Section 07 1900 Water Repellents: Add the attached section.
- 4. Section 07 4213 Metal Wall Panels: 2.02, Item C., 1.: Change to read as follows:
 - 1. Profile: Centria CS-200
 - a. Soffit Vent: Ecoscreen CS-260 Staggered Pattern 1/8" diameter w/ 3/16" spacing-12" panel locations as shown on drawings.
- 5. Section 07 4213 Metal Wall Panels: 2.02, add the following item:
 - I. Fascia Panels:
 - 1. Profile: Centria CS-200
 - 2. Material: Precoated steel sheet, minimum 22 gage.
 - 3. Color: As selected by Architect from manufacturer's standard line.
- 6. Section 08 3250 Bullet-Resistant Security Aluminum Windows, Doors and Frames:

Part 1 – General, 1.03 System Performance Requirements, A.: This item should indicate Level 4 bullet resistance, not Level 3 as shown.

- 7. Section 08 3313 Coiling Counter Doors: Item 2.02, A., 3. Change as follows:
 - A. Slat Profile: Flat
- 8. **Section 08 3313 Coiling Counter Doors:** Cornell Iron Works, Inc., model ESC10 is an approved manufacturer and product for this section.
- 9. Section 123600 Countertops:
 - A. Clarification: Natural Quartz and Resin Composite Countertops as specified are to be used in areas shown on the drawings indicated as " Solid Surface".
 - B. Item 2.01, A., 1., c., should Read as follows:
 - c. Laminate Core: Manufacturer standard core color.
 - C. Item 2.02, Add the following under 2.02:
 - F. Plastic Laminate Counter Top Support Brackets: Where countertops are unsupported by cabinets or walls, for a clear span of over 36 inches, install support brackets at 36 inches on center.
 - 1. Product: Lymann Associates Inc, Pre- finished Counter Top Supports; www.lymanassociates.com/topsupport.htm.
 - a. Finish: High impact powdercoat, color; Black.

DRAWINGS

Structural

The notations is: "Addenda sheet" - "drawing sheet" - description

- 1. No drawing Coordination of precast suppliers and steel supplier is the responsibility of the General Contractor.
- 2. A6-1 7/S103 Dimensions of condenser enclosure changes.
- 3. A6-2 8/S103 Dimensions of condenser enclosure changes.
- 4. A6-3 S001 "Precast Concrete" Design requirements clarificatied
- A6-4 S001 "Design Criteria" Seismic system design category, system, and base shear changed. Overhang wind pressure clarified.

Architectural

A-1.02

1. SK A-1.02.4 – Updated condenser enclosure size.

A-1.03

1. SK A-1.03.4 – Updated condenser enclosure size.

A-1.71

1. SK A-1.71.4 – Updated downspout to coordinate with condenser enclosure size.

A-2.02

1. SK A-2.02.2 – Updated condenser enclosure building elevation.

	_	0	1
A	-5	()	н

- 2. SK A-5.01.1 Updated condenser enclosure roof plan.
- 3. SK A-5.01.2 Updated condenser enclosure floor plan.
- 4. SK A-5.01.3 Updated condenser enclosure elevation.

Interior Design Drawings

- 1. ID-2.05
 - 1.1. ID 2.05B Changed the elevations of the Coat Racks.
- 2. ID-2.07
 - 2.1. ID 2.07C Added the elevations of the Casework at the Multi-Media Control Work Center 119...
- 3. ID-2.05
 - 3.1. ID 4.01B Added details for the Shelf and Rod for Coat racks at Coat Closet 103 and Corridor 150.
- Clarification: Interior Elevations: All Countertops denoted as "Solid Surface" on the drawings refer to Natural Quartz and Resin Composite Countertops as indicated in specification section 123600 Countertops.

Electrical

- 1. The UPS system basis of design is the Eaton 9390 model as indicated on the electric riser on drawing E3.1.
- 2. The UPS system batteries shall be sized to provide 17 minutes of run time at full load of 160 KVA.
- 3. The type "D2" light fixtures will require 0-10 volt model wall dimmer switches with 0-10 volt wiring for dimming control ran to each "D2" fixture.

Technology/Communications - SEE ADDENDUM #6A END OF ADDENDUM

By: Sobbot Melinda Bobbitt, CPPO, CPPB Director of Purchasing

OFFEROR has examined copy of Addendum #6 to Request for Bid # 44-11DEC14 – Boone County Emergency Communication Center receipt of which is hereby acknowledged:

Company Name: Address:	
Phone Number:	Fax Number:
E-mail address:	
Authorized Representative Signature:	Date:
Authorized Representative Printed Name:	

SECTION 07 1900 WATER REPELLENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Water repellents applied to exterior Pre-Cast Concrete Panel surfaces.

1.02 SUBMITTALS

- A. See Section 01 3000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide product description.
- C. Manufacturer's Installation Instructions: Indicate special procedures and conditions requiring special attention; cautionary procedures required during application.
- D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

1.03 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.
- B. Installer Qualifications: Company specializing in performing the work of this section with minimum 3 years experience.

1.04 MOCK-UP

- A. Prepare a representative surface 48 by 48 inch (1.22 by 1.22 m) in size using specified materials and preparation and application methods on surfaces identical to those to be coated; let test area fully cure before inspection-approved mock-up constitutes standard for workmanship.
- B. Locate where directed.
- Mock-up may remain as part of the Work.

1.05 FIELD CONDITIONS

- Protect liquid materials from freezing.
- B. Do not apply water repellent when ambient temperature is lower than 50 degrees F (10 degrees C) or higher than 100 degrees F (38 degrees C).
- Do not apply water repellents when wind velocity is higher than 20 mph (_____ kph).

PART 2 PRODUCTS

2.01 MANUFACTURERS

- Silane/Siloxane Water Repellents:
 - PROSOCO, Inc; Product Sure Klean Weather Seal; Siloxane WB Concentrate: www.prosoco.com.
 - 2. Substitutions: See Section 01 6000 - Product Requirements.

2.02 MATERIALS

- A. Water Repellent: Concentrated water repellant designed for dilution with fresh water at the job site. Solvent free blend of silanes and oligomeric alkosiloxylanes mixed easily with water to produce a penetrating low-VOC water repellant ideal for application to dense or porous masonry surfaces.
 - Applications: All Exterior Vertical surfaces and non-traffic horizontal surfaces of pre-cast concrete.
 - Number of Coats: Two.

PART 3 EXECUTION

3.01 EXAMINATION

Verify existing conditions before starting work.

- B. Verify joint sealants are installed and cured.
- C. Verify surfaces to be coated are dry, clean, and free of efflorescence, oil, or other matter detrimental to application of water repellent.

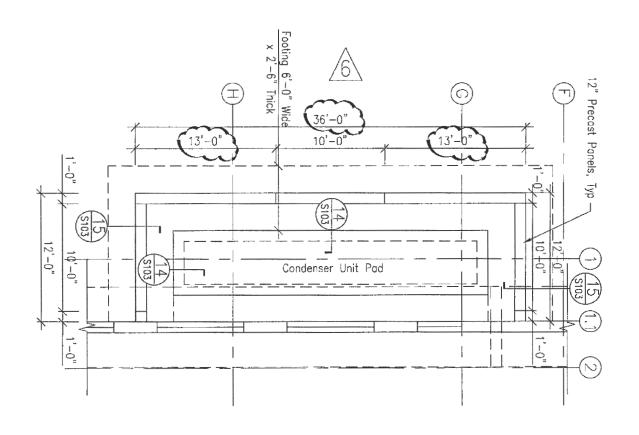
3.02 PREPARATION

- A. Protection of Adjacent Work:
 - 1. Protect adjacent landscaping, property, and vehicles from drips and overspray.
 - 2. Protect adjacent surfaces not intended to receive water repellent.
- Prepare surfaces to be coated as recommended by water repellent manufacturer for best results.
- C. Do not start work until concrete substrate is cured a minimum of 60 days.
- D. Remove loose particles and foreign matter.
- E. Remove oil and foreign substances with a chemical solvent that will not affect water repellent.
- F. Allow surfaces to dry completely to degree recommended by water repellent manufacturer before starting coating work.
- G. Protect treated surfaces from precipitation for 4 hours.

3.03 APPLICATION

- A. Apply water repellent in accordance with manufacturer's instructions, using procedures and application methods recommended as producing the best results.
- B. Apply at rate recommended by manufacturer, continuously over entire surface.
- C. Apply two coats, minimum.
- D. Remove water repellent from unintended surfaces immediately by a method instructed by water repellent manufacturer.

END OF SECTION





I.S.K. Reeves V, F.A.I.A. Ian A. Reeves, A.I.A. Kevin Ratigan, A.I.A., LEED-AP

333 N. Knowles Ave. Winter Park, Florida 32789 P: (407) 647-1706

EMERGENCY COMMUNICATIONS CENTER

BOONE COUNTY MISSOURI

scale:

Varies

MHS TPE

checked:

TPE approved:

date:

12-18-2014

- project no.

916

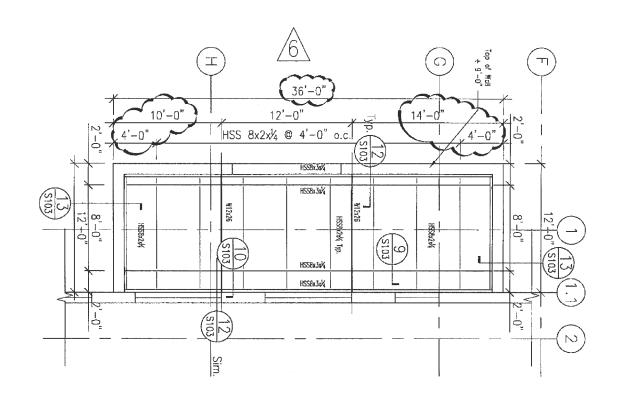
· sheet title: Addendum 6 Sheet 1

- sheet reference:

A6-1

Condenser Enclosure Foundation Plan

Ref. 7/S103 | 1/8"=1'-0"





Architects and Planners

I.S.K. Reeves V, F.A.I.A. Ian A. Reeves, A.I.A. Kevin Ratigan, A.I.A., LEED-AP

333 N. Knowles Ave. Winter Park, Florida 32789 P: (407) 647-1706

Corporate Registration Number: 2010003481

EMERGENCY COMMUNICATIONS CENTER

BOONE COUNTY MISSOURI

scale:

Varies

drawn:

MHS TPE

checked:

• approved: TPE

12-18-2014 date:

• project no.

916

• sheet title: Addendum 6 Sheet 2

- sheet reference:

A6-2

Condenser Enclosure Roof Plan

Ref. 8/S103 | 1/8"=1'-0"



Precast Concrete

1.	All precast concrete shall be designed for the loads indicated below, in DESIGN CRITERIA and in individual details, and within
	the dimensional limits shown on the Architectural and Structural drawings; including handling and erection stresses.

a. Design in plane load for all walls is as follows:

ii) Wind: 3,500 lbs per linear foot.iii) Seismic: 1,700 lbs per linear foot.

b. Design diaphragm force for hollowcore system is as follows:

ii) Wind: 3,500 lbs per linear foot.

iii) Seismic: 1,700 lbs per linear foot.Hollowcore design engineer shall design the composite, cast-in-place topping.

d. All precast walls are part of the lateral force resisting system. Supporting structure has been designed to resist resulting vertical forces.

Coordinate with mechanical, electrical and plumbing drawings for penetrations not shown or dimensioned.

3. Special attachment is required for all glazing. Coordinate with glazing supplier.

4. All shop drawings for precast concrete members including walls, and floor planks, along with accompanying design calculations, shall be submitted for review, and shall bear the seal of a design professional registered in the state of the project.

a Design and detail all connections to precast. Coordinate connection of steel beams with steel supplier.

b. Design all connections for 125% of the seismic force or 100% of the wind force, whichever is greater.

5. Analysis and design of all precast concrete shall be in accordance with the following:

a. Building design code referenced in the "Design Criteria" section

b. "Building Code Requirements for Structural Concrete", ACI 318

c. "Manual for Structural Design of Architectural Precast Concrete", PCI MNL-121

 Precast shall bear on continuous high-density plastic, or hard board bearing strips, 1/8" thick, at CMU bearing locations, and as noted on the plans.

Architects and Planners
LISK Rewes V. F.ALA.
Ian A. Remers, ALA.
Kan'n Farigan, A.IA., (EED.AD
333 N. Konwes Are.
White Part, Finds 32789
P. (407) 647-1706
Copyenan Replantion
Pr. (407) 647-1706
Communications
Center

BOONE COUNTY
MISSOURI

BOONE COUNTY
MISSOURI

BOONE COUNTY
MISSOURI

- scale: Varies
- drown: NHS
- drown: NHS
- drown: PPE
- approved: PPE
- approved: PPE
- date: 12-18-2014
- project no.
916

- sheet title:
Addendum 6
Sheet 3

Design Criteria

1. Design Codes:

- a. International Building Code: IBC 2012
- FEMA 361 Design and Construction Guidance for Community Safe Rooms, 2nd Ed. August 2008
- Minimum Design Loads for Buildings and Other Structures: ASCE 7-10

2. Design Loads:

Live Loads

Slab on Grade

= 150 psf (reducible per code)

Dead Loads

Roof

12" Planks w/ 4" Topping 12 Cast in Place Roof

= 125 psf=150 psf

Collateral (Both Roofs)

=20 psf

Walls

12" Sandwich Panels

= 150 psf

Roof Snow Load

= 20 psf Ground Snow Load (Pg) = 14 psf Flat Roof Snow Load (Pf) Snow Exposure Factor (Ce) = 1.0Snow Load Importance (I) = 1.0Roof Thermal Factor (Ci) = 1.0

Wind Load (FEMA 361 is based on ASCE7-05, load combinations have been adjusted accordingly)

Basic Wind Speed = 250 mph (3 sec. Gust)

Wind Exposure

Wind Load Importance Factor = 1.0 (FEMA 361)

Internal pressure Coefficient (GCpi) = ±0.55 (FEMA 361 - Partially Enclosed)

Components and Cladding (psf):

Zone	A,≤50	A₁≤100	A _t ≤500
1	+126/-230	+115/-219	+111/-215
2	+160/-350	+143/-275	+140/-244
3	+160/-350	+143/-275	+140/-244
Over- hang	-252	-241	-237
4	+215/-230	+191/-205	+175/-188
5_	+215/-268	+191/-221	+175/-188

Overhang pressure does not include Ps (soffit pressure)

Impact Loads

Vertical Surfaces

= 15 lb 2x4 Lumber at 100 mph

Horizontal Surfaces

= 15 lb 2x4 Lumber at 67 mph

Earthquake Load:

Seismic Importance Factor = 1.5Risk Category IV

 $S_1 = 0.093g$

 $S_S = 0.213g$

Soil Site Class:

 $S_{D1} = 0.105$ $S_{DS} = 0.170$ Seismic Design Category

C

Basic Seismic Force Resisting System Intermediate Precast Shear Walls $C_S = 0.064$

NOTE: Lower R value used for entire structure

Design Base Shear V=

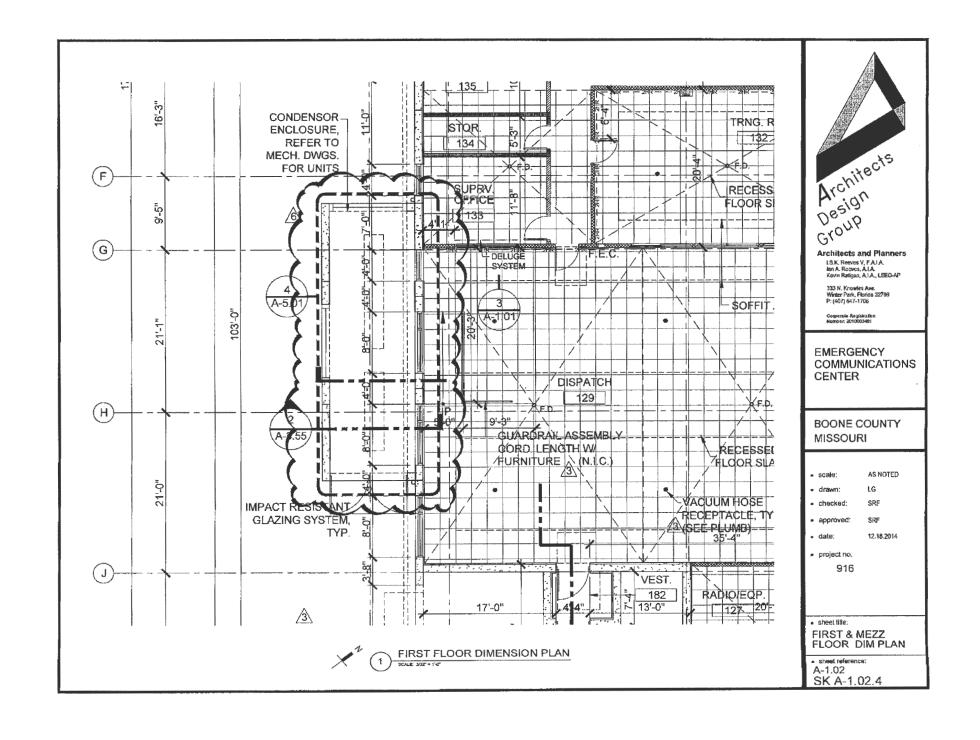
= 300 kips

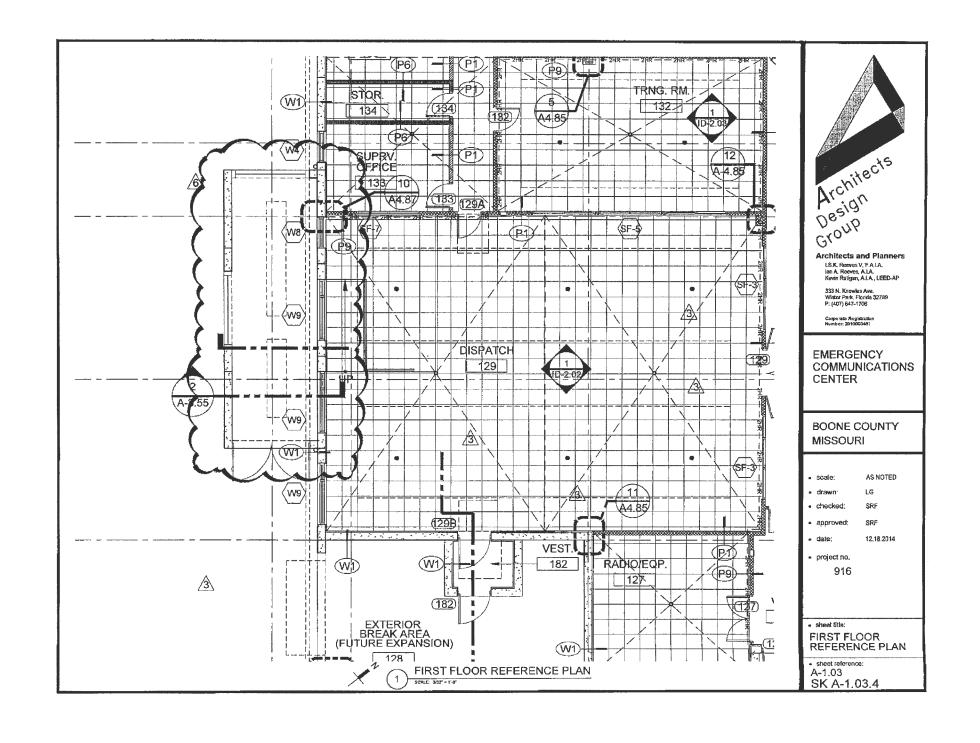
Analysis Procedure

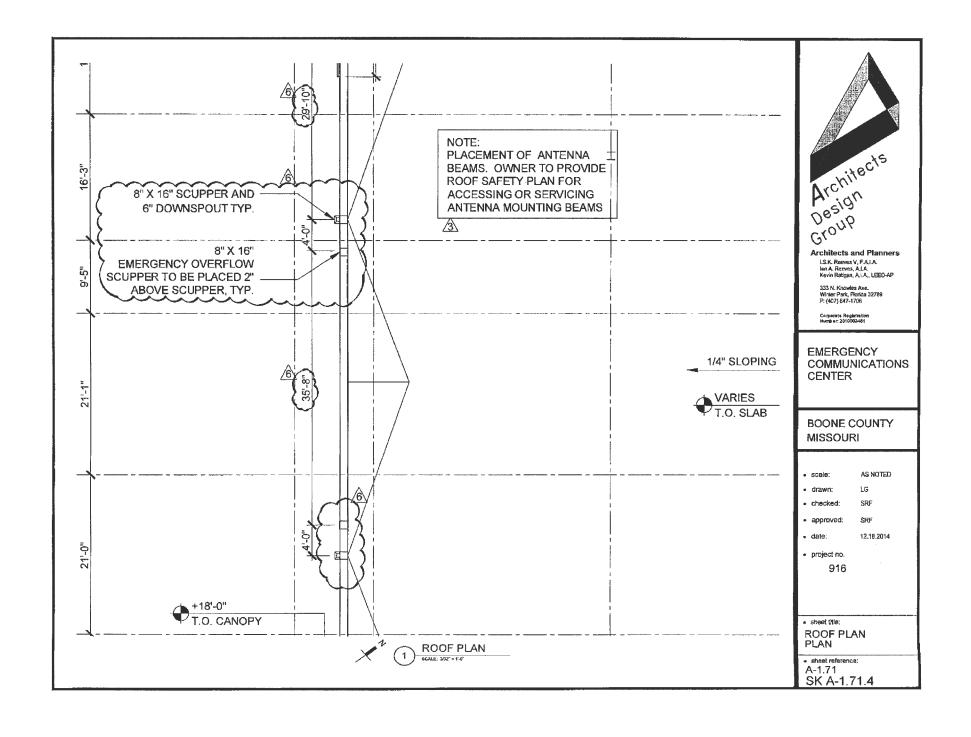
= Equivalent Lateral Force Procedure (ASCE 7-10 Chapter 12.8)

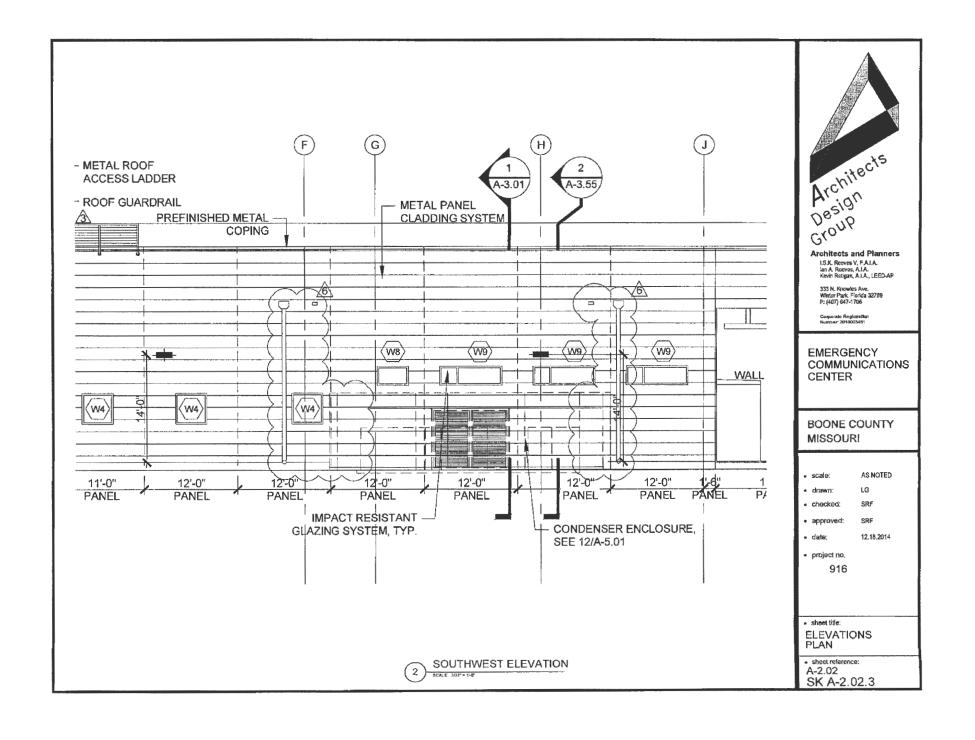
R = 4

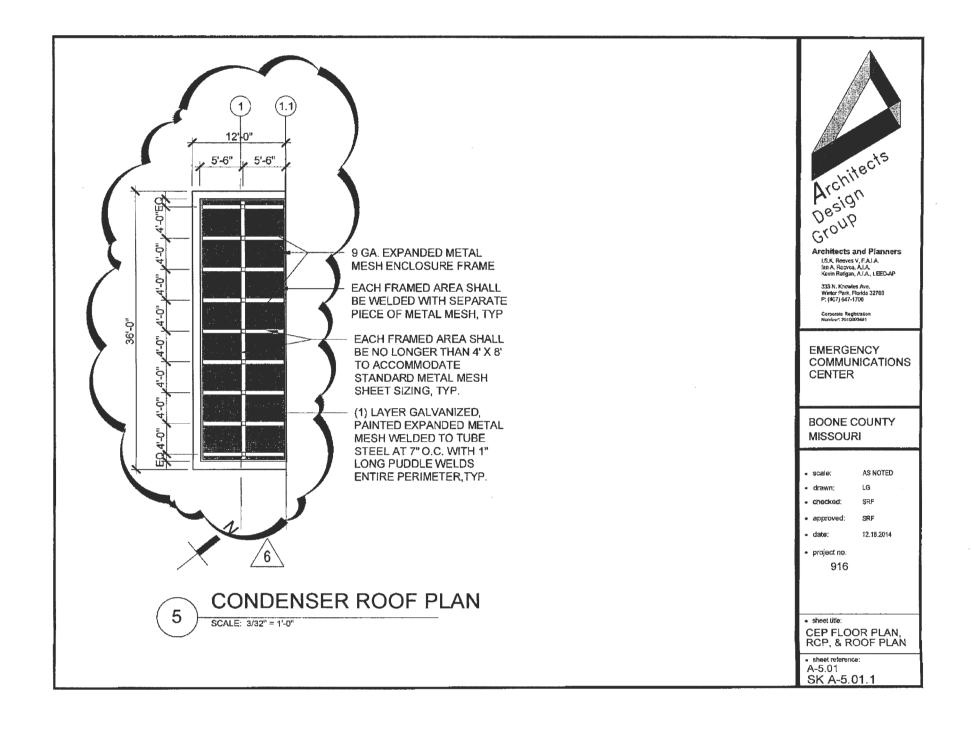
	sheet title: Addendum 6 Sheet 4	scole: Varies drawn: MHS checked: TPE approved: TPE date: 12-18-2014 project no. 916	BOONE COUNTY MISSOURI	EMERGENCY COMMUNICATIONS CENTER	Architects and Planners LS.K. Roevas V. F.A.I.A. Jan A. Reevas V. F.A.I.A. Jan A. Reevis A.V.A., LEED-AP 333 N. Krowles Ave. When 7 PM. Florida 2078S P. (407) 647 - 7106 Curporation Regalabetion Number 2010003481
--	---------------------------------	--	--------------------------	---------------------------------------	---

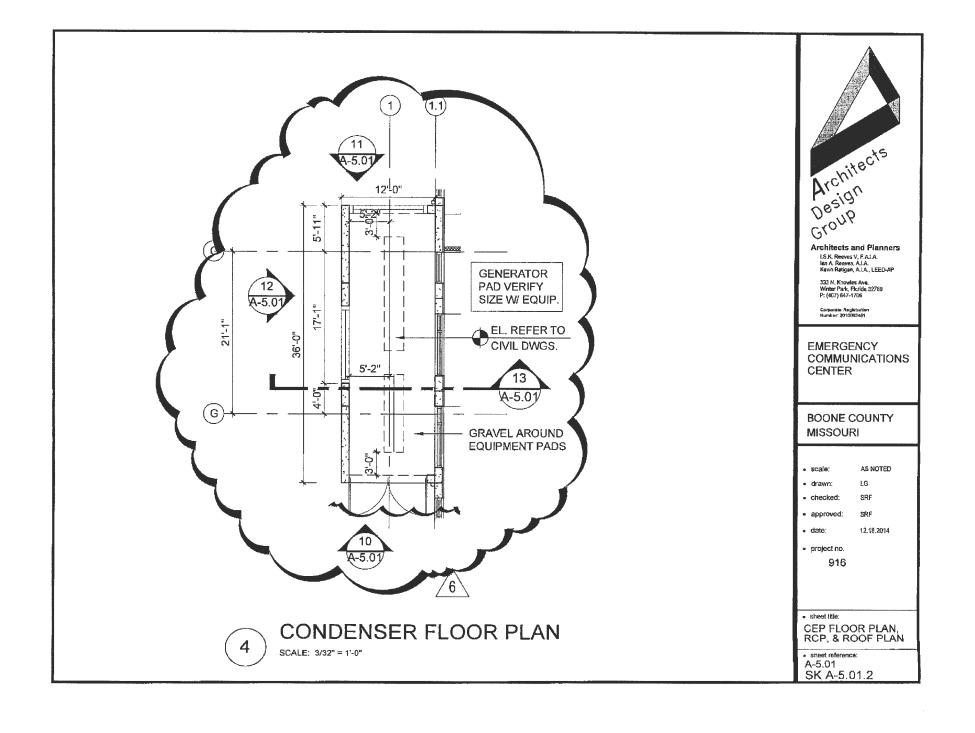


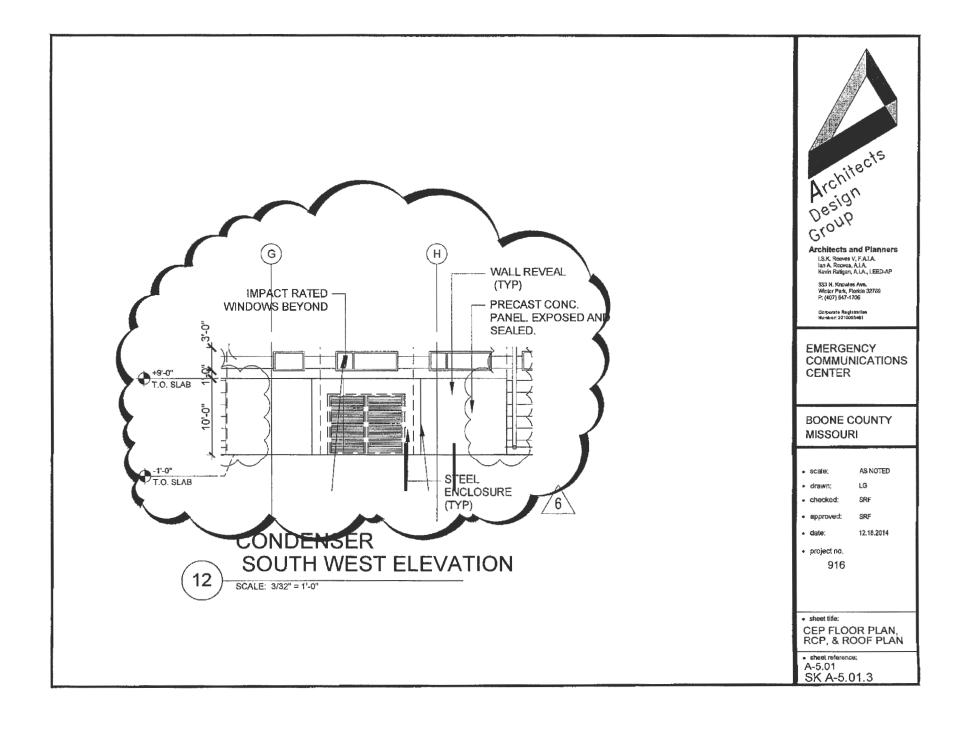


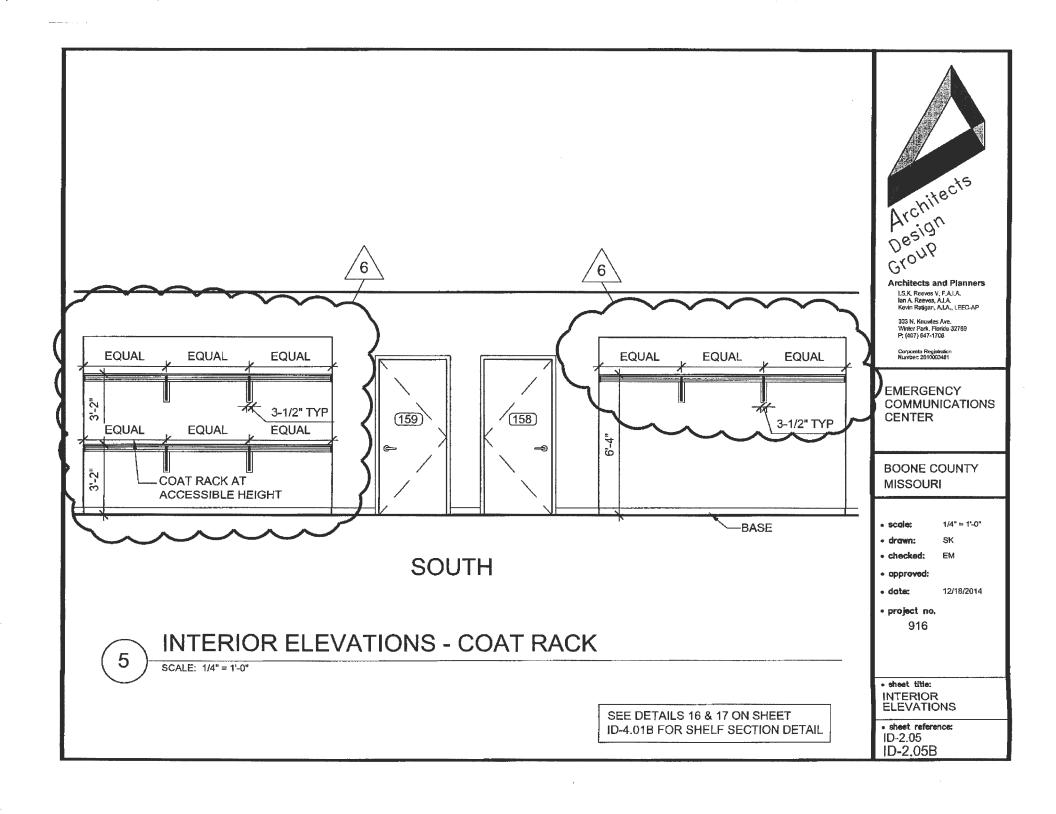


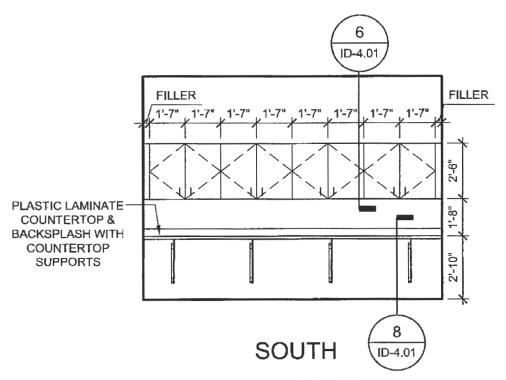












INTERIOR ELEVATIONS -MULTI-MEDIA CONTROL WORK CENTER #119

SCALE: 1/4" = 1'-0"

5



Architects and Planners

I.S.X. Resves V, F.A.I.A. Ian A. Resves, A.I.A. Kevin Ratigan, A.I.A., LEED-AP

333 N. Knowles Ave. Winter Park, Florida 32789 P: (407) 647-1706

EMERGENCY COMMUNICATIONS CENTER

BOONE COUNTY MISSOURI

1/4" = 1'-0" scale:

drawn:

checked:

approved:

date:

12/18/2014

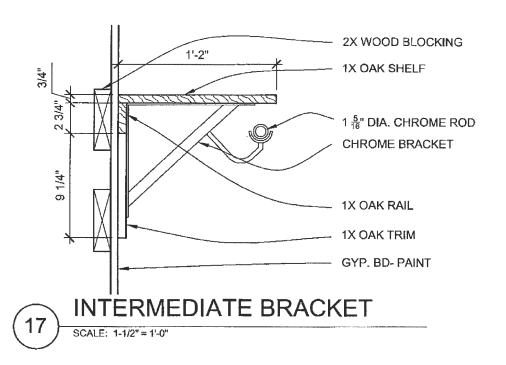
SK ЕМ

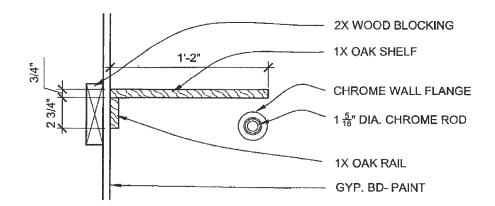
• project no.

916

- sheet title: INTERIOR **ELEVATIONS**

 sheet reference: ID-2.07 ID-2.07C





END WALL BRACKET

SCALE: 1-1/2" = 1'-0"

THESE DETAILS APPLY TO ALL COAT **CLOSETS INCLUDING CORRIDOR 150** & COAT CLOSET 103.



Architects and Planners

LS.K. Reeves V, F.A.I.A. Ian A. Reeves, A.I.A. Kevin Raligan, A.I.A., LEED-AP

333 N. Knowles Ave. Winter Park, Florida 32769 P: (407) 647-1706

EMERGENCY COMMUNICATIONS CENTER

BOONE COUNTY MISSOURI

scale:

1-1/2" = 1'-0" SK

- drawn:

checked:

approved:

- date: 12/18/2014

- project no.

916

- sheet title: INTERIOR MILLWORK **DETAILS**

 sheet reference: ID-4.01 ID-4.01B