



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

ADDENDUM #3 - Issued December 8, 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. A conformed set of drawings and specifications, which will include all items issued through addendum, will be produced and provided for the selected contractor prior to start of construction. This conformed set will be issued for construction prior to start of Construction. These documents will also be submitted to County Building Departments and Inspection Officials for record.

SPECIFICATIONS

1. **Section 05 5000:** Replace 2.04 with the following.

2.04 *PREFABRICATED ITEMS*

A. *Prefabricated Ladder: Welded metal unit complying with ANSI A14.3; factory fabricated to greatest degree practical and in the largest components possible.*

1. *Components: Manufacturer's standard rails, rungs, treads, handrails, returns, platforms and safety devices complying with the requirements of the MATERIALS article of this section.*
2. *Materials: Aluminum; ASTM B221/B221M, alloy 6063-T52.*
3. *Finish: Natural aluminum.*
4. *Products:*

- a. *Exterior Roof Access ladder: Alaco Ladder Company, Model # 562-Fixed Wall Ladder with Roof Return: www.alacoladder.com*
- b. *Substitutions: See Section 01 6000 - Product Requirements.*

B. *Prefabricated Fold Down Bollards: Surface mount folding bollard. Locate 3 bollards at the entry from the parking lot onto the 12 foot sidewalk to the east of the building. Final location of the bollards as directed in the field by the Architect.*

1. *Products:*

- a. *Fold Down Bollards: Vestil Manufacturing, Model Park-P-60-FD; Folding Bollard with cast steel base, integrated locking mechanism, 2 wrap around reflectors: www.vestilmfg.com*
- b. *Substitutions: See Section 01 6000 - Product Requirements.*

2. **Section 06 4100 Architectural Wood Casework:** Add the attached section.

3. **Section 07 6200 Sheet Metal Flashing and Trim:**

- a. Replace item 1.04, A. with the following:
 - A. *Perform work in accordance with Structural Design Criteria as indicated on drawing Sheet S001, SMACNA Architectural Sheet Metal Manual requirements and standard details, except as otherwise indicated.*
- b. Replace item 2.06, B., 1. with the following:
 - 1. *Anchorage Devices: In accordance with SMACNA requirements and Design Criteria as listed on drawing Sheet S001.*

4. **Section 08 1113 Hollow Metal Doors and Frames:** Republic Doors and Frames is an approved manufacturer for this section.

5. **Section 08 1416 Flush Wood Doors:** Oshkosh Door Company is an approved manufacturer's for this section.

6. **Section 08 4313 Interior Aluminum Framed Windows and Sliding Doors:** Clarification: Specifications indicate a product for windows that has insulated glass. Windows covered by this section are to have insulated glazing. Details on drawings should be assumed to follow this condition.

7. **Section 08 7100 Door Hardware:**

- a. Replace the Section in the Manual with the attached revised Section 08 7100.
- b. Trimco is an approved manufacturer for Stops, Holders and Flat Goods in this section.
- c. National Guard Products is an approved manufacturer for this section.
- d. Stanley is an approved manufacturer for Closers, Hinges, and (Best Access Systems) Electronic Strikes.
- e. Stanley Security Solutions, Precision Hardware (Apex 2000) is an approved manufacturer for exit devices.

8. **Section 10 2113 Plastic Toilet Compartments:** Accurate Partitions is an approved manufacturer for this section.

9. **Section 10 4400 Fire Protection Specialties:** Replace item 2.01 with the following:

2.01 Manufacturers

- A. *Fire Extinguisher Cabinets and Accessories:*
 - 1. *Basis of Design Wall Cabinets and Brackets: Larsen's Manufacturing Co. www.larsensmfg.com.:*

- a. *All locations except Mezzanine and Ground Level Storage: 2409-R7Semi-Recessed Wall Cabinet*
 - b. *Mezzanine and Ground Level Storage use Wall Brackets.*
2. *Basis of Design Fire Extinguishers: Larsen's Manufacturing Co; www.larsensmfg.com.:*
- a. *In all locations except Vestibule 125, Dispatch 129 and Primary Data 162: MP10 Multi-Purpose Dry Chemical, (ABC) fire extinguisher typical.*
 - b. *Vestibule 125, Dispatch 129 and Primary Data 162: HT 11 Halotron I-EPA Approved Clean Agent.*
3. *Substitutions: See Section 01 6000 Product Requirements.*

10. **Section 10 4400 Fire Protection Specialties:** 3.03 Schedules Replace item A with the following:

- A. *See Drawings for preliminary locations. Final Locations of Fire Extinguishers should be coordinated with the Architect in consultation with the Boone County Fire Department.*

11. **Section 12 2400 Window Shades:** Add the following to item 2.02, A., 6.:
"Include shades for the interior windows located in Training Room 132".

12. **Section 12 3530 Manufactured Casework:** Delete this Section. See attached Section 06 4100 for Architectural Wood Casework.

DRAWINGS

Civil

1. The Parking Information section of Sheet C200 refers to 84 Standard Parking Spaces (9'x18' Min.). This should read 84 Standard Parking Space (9'x19' Min.).
2. The Transformer Pad shown on Sheet C200 is the responsibility of the Contractor and shall be Pre-Cast or Cast-in-place according to the detail provided by Boone Electric and shown on the attached 500 KVA Transformer Pad Sketch.
3. A 4'x 13' Sidewalk has been added near the south eastern doorway to the CEP (See Attached Sidewalk Addition Sketch). This location of this addition is shown on Sheet C200.
4. The bike rack is indicated near the main entry door. The Basis of Design is AAA Ribbon Bike Rack Company: www.ribbonrack.com. or approved equal. This is a 7- space, galvanized, tube steel bike rack, in-ground anchor mounted. The product should be revised to Read RB-07-I-G.

Structural

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

1. 1/A3-1 – S002 – Wind uplift zone added for low roof at entry
2. 2/A3-1 – 1/S101 – Retaining wall at site stair added
3. 3/A3-1 – 1.S201 – Spacing of canopy framing adjusted
4. 1/A3-2 – 5.S103 – Note added re: concrete pad dimensions
5. 1/A3-3 –7/S503 – Note added re: concrete pad dimensions
6. 1/A3-4 – 1.S202 – Slab elevation changed
7. 2/A3-4 – 1/S202 – Antenna support changed from beams to pipe, elevations changed
8. 1/A3-5 – 2/S504 – Dimensions clarified
9. 1/A3-6 – 3/S504 – Topping thickness corrected
10. 1/A3-7 – 4/S504 – Antenna support changed to pipes
11. 1/A3-8 – 12/S504 – Added detail for guardrail
12. 1/A3-9 – 9/S501 – sliding door updated schematically
13. 1/A3-10 – 11/S501 – Railing omitted
14. 1/A3-11 – 1/S504 – Metal deck added to canopies
15. 1/A3-12 – 1/S101 – Note added re: floor drains
16. 2/A3-12 – S001 – Design Criteria updated to include Impact Requirements
17. 1/A3-13 – 11/S504 – Added Retaining wall section
18. 1/A3-14 – 1/S102 - Note added re: floor drains. Note Reads: "5. At Floor Drains, Locally Slope Floor Towards Drain. See Architectural and Plumbing Drawings for Drain Locations".

Architectural (ADG)

1. G-1.01 (No attached Sheet)
 - 1.1. Updated notes to detail 2 & 3 Stairs ST-1A and ST-1.
 - 1.2. Updated Plumbing Fixture Calculations.
 - 1.3. Added Fire Extinguisher to Primary Data Room
2. A-1.01
 - 2.1. SK A-1.01.1
 - 2.1.1 Update Site Retaining Wall notes.
 - 2.1.2 Adjusted steel bollard location.
 - 2.2. SK A-1.01.2
 - 2.2.1 Update Site Retaining Wall notes.
 - 2.2.2 Adjusted steel bollard location.

- 2.3. SK A-1.01.3 – Included impact requirements to Window Types Legend.
- 3. A-1.02
 - 3.1. SK A-1.02.1
 - 3.1.1 Deleted note for METAL GUARDRAIL SYSTEM.
 - 3.1.2 Updated note for coordination of guardrail with furniture.
 - 3.2. SK A-1.02.2 – Updated dimension.
 - 3.2.1 Updated dimensions.
 - 3.2.2 M.R.R. 164: Deleted toilet and reduced partition. Added new urinal.
 - 3.2.3 M.R.R. 172: Added new urinal.
 - 3.3. SK A-1.02.3 – Deleted millwork from Serv. Equip. 149.
- 4. A-1.03
 - 4.1. SK A-1.03.1
 - 4.1.1 Deleted millwork from Serv. Equip. 149.
 - 4.1.2 Updated partition tags.
 - 4.2. SK A-1.03.2
 - 4.2.1 M.R.R. 172: Added new urinal.
 - 4.2.2 Updated partition tags.
 - 4.3. SK A-1.03.3
 - 4.3.1 M.R.R. 164: Deleted toilet and reduced partition. Added new urinal.
 - 4.3.2 Updated partition tags.
- 5. A-1.11
 - 5.1. SK A-1.11.1 – Updated wall notes.
 - 5.2. SK A-1.11.2 – Updated wall notes.
- 6. A-1.51
 - 6.1. SK A-1.51.1
 - 6.1.1 Deleted fixture type designation. Refer to electrical.
 - 6.1.2 Detail 3: Revised to detail 2.
 - 6.2. SK A-1.51.2
 - 6.2.1 Deleted fixture type designation. Refer to electrical.
 - 6.2.2 Detail 1: Added typical note.
- 7. A-1.52
 - 7.1. SK A-1.52.1
 - 7.1.1 Janitor/Laundry Room 165 updated to gypsum board ceiling.
 - 7.1.2 Deleted projector and screen from Briefing Room 144.
- 8. A-1.53
 - 8.1. SK A-1.53.1 – Detail 6: Added note and insulation.
 - 8.2. SK A-1.53.2 – Detail 7: Updated detail.
- 9. A-1.71
 - 9.1. SK A-1.71.1
 - 9.1.1 Updated extents roof access pad.
 - 9.1.2 Added roof guard rail.

- 9.1.3 Updated notes.
- 9.2. SK A-1.71.2 – Updated top of slab elevations.
- 9.3. SK A-1.71.3
 - 9.3.1 Updated top of slab elevations.
 - 9.3.2 Updated scupper location.
- 10. A-1.72
 - 10.1. SK A-1.72.1 – Detail 2: Updated attachment notes.
- 11. A-1.73
 - 11.1. SK A-1.73.1 – Detail 3: Updated attachment notes.
 - 11.2. SK A-1.73.2 – Detail 4: Updated attachment notes.
- 12. A-2.01
 - 12.1. SK A-2.01.1 – Added roof guard rail.
- 13. A-2.02
 - 13.1. SK A-2.02.1
 - 13.1.1 Added roof guard rail.
 - 13.1.2 Added roof safety plan note.
 - 13.2. SK A-2.02.2 – Added roof guard rail.
- 14. A-3.01
 - 14.1. SK A-3.01.1
 - 14.1.1 Added roof guard rail.
 - 14.1.2 Updated slab at Corridor 128.
- 15. A-3.02
 - 15.1. SK A-3.02.1 – Added roof guard rail.
 - 15.2. SK A-3.02.2 – Detail 2-Updated Detail Callout Tag.
 - 15.3. SK A-3.02.2 – Detail 2-Updated guard rail.
- 16. A-3.03
 - 16.1. SK A-3.03.1 – Added roof guard rail.
- 17. A-3.51
 - 17.1. SK A-3.51.1 – Updated to show card reader.
 - 17.2. SK A-3.51.2 – Updated to show card reader.
- 18. A-3.53
 - 18.1. SK A-3.53.1 – Updated top of wall.
 - 18.2. SK A-3.53.2 – Updated top of wall tag.
 - 18.3. SK A-3.53.3 – Updated top of wall.
 - 18.4. SK A-3.53.4 – Updated top of wall tag.
- 19. A-3.55
 - 19.1. SK A-3.55.1 – Detail 2: Updated detail tag.
 - 19.2. SK A-3.55.2 – Detail 3: Updated floor detail.

20. A-3.56

- 20.1. SK A-3.56.1 – Detail 1: Updated detail callout tags.
- 20.2. SK A-3.56.1 – Detail 3: Updated wall section.
- 20.3. SK A-3.56.2 – Detail 2: Updated wall section.
- 20.4. SK A-3.56.3 – Detail 1: Updated wall section.

21. A-3.57

- 21.1. SK A-3.57.1 – Detail 4: Updated top of mezzanine tag.
- 21.2. SK A-3.57.2 – Detail 2: Updated dimension and updated ceiling.
- 21.3. SK A-3.57.3 – Detail 1: Updated room tag.

22. A-4.01

- 22.1. A 4.01A-Detail 2 – Enlarged Plan – Restrooms 171/172
 - 22.1.1 Add urinal to Men’s Restroom #172
- 22.2. A-4.01B-Detail 5 – Enlarged Plan – Restrooms 163/164
 - 22.2.1 Replaced toilet with a urinal in Men’s Restroom #164
- 22.3. A4.01-C-Accessory Schedule – TA.9 – Toilet grab bars changed to Bobrick #B5806 as basis of design.
- 22.4. Detail 6 Enlarged Plan-Kitchen 177: Clarification- The under counter Ice Machine and refrigerator are by Owner.

23. A-4.02

- 23.1. A-4.02A-Added a Detail 9 for clarification of location of FRP panels around mop sink.

24. A-4.12

- 24.1. SK A-4.12.1
 - 24.1.1 Detail 2: Updated detail reference.
 - 24.1.2 Detail 2: Updated ceiling height.

25. A-4.81

- 25.1. SK A-4.81.1 – Detail 3: Updated canopy section.
- 25.2. SK A-4.81.2 – Detail 7: Updated roof edge detail.
- 25.3. SK A-4.81.3 – Detail 1: Updated section.

26. A-4.82

- 26.1. SK A-4.82.1 – Detail 1: Indicated thickness for operator cover.

27. A-4.84

- 27.1. SK A-4.84.1 – Detail 6: Revised antenna beam detail.
- 27.2. SK A-4.84.2 – Detail4: Included new detail for edge of roof guardrails.

28. A-4.85

- 28.1. Clarifying the extent and location of Ballistic Fiberglass Panels: "P4" Partitions shown to receive ballistic fiberglass panels from floor to bottom of structure. Details on sheets A4.85 should be changed to have the ballistic Fiberglass insulation to the threat

side of the partition which is the Secure Vestibule 101, Lobby/Recep 102, or Public Restroom 104 side of the partition.

29. A-6.01 (No Sheet)

29.1. Doors 001 & 151 at Stairs – 45 minute fire rating.

30. A-6.51

30.1. SK A-6.51.1 – Detail 1: Updated dimensions for W5 and W6.

30.2. SK A-6.51.2 – Detail 2: Updated SF-2, center window to be operable / sliding.

31. A-6.53

31.1. Clarifying the extent and location of Ballistic Fiberglass Panels: "P4" Partitions shown to receive ballistic fiberglass panels from floor to bottom of structure. Details on sheets A 6.53 should be changed to have the ballistic Fiberglass insulation to the threat side of the partition which is the Secure Vestibule 101, Lobby/Recep 102, or Public Restroom 104 side of the partition.

32. A-6.54

32.1. Clarifying the extent and location of Ballistic Fiberglass Panels: "P4" Partitions shown to receive ballistic fiberglass panels from floor to bottom of structure. Details on sheets A6.54 should be changed to have the ballistic Fiberglass insulation to the threat side of the partition which is the Secure Vestibule 101, Lobby/Recep 102, or Public Restroom 104 side of the partition.

33. A-6.55

33.1. Clarifying the extent and location of Ballistic Fiberglass Panels: "P4" Partitions shown to receive ballistic fiberglass panels from floor to bottom of structure. Details on sheets A6.55 should be changed to have the ballistic fiberglass insulation to the threat side of the partition which is the Secure Vestibule 101, Lobby/Recep 102, or Public Restroom 104 side of the partition.

Interior Design Drawings

1. ID-1.01

1.1. SK ID-1.01.1 – Updated reference note.

2. ID-1.51

2.1. ID-1.51A-Change Radio Equipment 127 to Industrial PVC Floor

2.2. ID 1.51-A-Add carpeting isle to Vestibule 182 in Dispatch 129

3. ID-2.01

3.1. ID-2.01A-Detail 2 – Interior Elevations – Men's #164

3.1.1 D10 South - Replace toilet with a urinal

3.2. ID-2.01B-Detail 3 – Interior Elevations – Public Restrooms #104

3.2.1 B12 South – Dimensions added to mirror.

4. ID-2.02

4.1. ID-2.02A, ID-2.02B, ID 2.02C-Detail 1 – Interior Elevations - Dispatch #129

- 4.1.1 TV sizes changed to reflect Technology drawings. Verify final TV monitor sizes with Technology.
 - 4.1.2 North - Middle Window SF-5 into Training changed to sliding window
 - 4.1.3 North - FEC shown
 - 4.1.4 Remove chair rail trims on all elevation details in Dispatch Room typical.
5. ID-2.03
- 5.1. ID-2.03A-Detail 1 – Interior Elevations – Training #132
 - 5.1.1 Remove chair rail trims on all elevations in Training Room typical.
 - 5.1.2 South – Middle Window SF-5 into Dispatch changed to sliding windows
 - 5.1.3 South - Window blinds shown.
6. ID-2.04
- 6.1. ID-2.04A-Detail 3 – Interior Elevations - Break Area #116 -FEC shown
7. ID-2.05 (1 Sheet)
- 7.1. ID-2.05A-Detail 3 – Interior Elevations – Central Kitchen #177 A
 - 7.1.1 West - FEC shown.
 - 7.2. ID-2.05A-Detail 5 – Interior Elevations – Coat Rack
 - 7.2.1 South - FEC shown.
8. ID-2.06
- 8.1. Detail 3 – Interior Elevations – Server Equipment #149
 - 8.1.1 Omit all upper and lower casework and countertops in this room.
 - 8.2. ID-2.06A-Detail 6 – Interior Elevations – Men’s #172
 - 8.2.1 C8 North – Urinal added.
9. ID-2.07
- 9.1. ID-2.07A and ID 2.07B-Detail 3 – Interior Elevations – Copy Center #146
 - 9.1.1 South – Omit plotter. Added casework.
 - 9.1.2 East – Replace base cabinets with another Lateral File.
 - 9.2. Detail 4 – Interior Elevations – Lockers Along Corridor #128
 - 9.2.1 West - Change height of base cabinets to 2’-10” and remove row of mailbox slots-See revised detail shown on sheet ID-4.01A this addendum
10. ID-4.01
- 10.1. ID-4.01A-Detail 14 – Chair Rail & Acoustical Panel Detail
 - 10.1.1 No chair rail in rooms: 129 & 132
 - 10.2. ID-4.01A-Detail 15 – Base Cabinet with Mailboxes
 - 10.2.1 Height of base cabinet changed to 2’-10” and a row of mailboxes is removed
11. ID-6.01
- 11.1. Room 127 – Radio Equipment flooring changed to PVC.

Mechanical

- 1. Sheet M4.2: Change CU-1 in the VRV System Schedule to a Daikin model RXYQ240TTJU and add two Daikin Model FXFQ24TVJU ceiling cassette fan coils to the CU-1 system. The two new fan coils shall be located in Radio Equip 127 suspended at 12’ AFF from unistrut

connected between the north and south walls. Refrigerant piping to the new fan coils shall be sized per the manufacturer's recommendation.

2. Sheet M4.2: The model number for HP-1 in the heatpump schedule shall be revised to a Water Furnace model NBH072-ECM.
3. Add specification section 26 0548 per the attached.
4. LG is approved as an alternate manufacturer for the VRV heatpump system equipment.
5. Notifier is approved as an alternate manufacturer for the fire alarm system equipment.
6. A Novec 1230 system shall be utilized for the fire suppression system in Data 161 and 162.
7. The controls contractor shall add a warning light above door 129A in Dispatch 129 to alert the dispatch supervisor if there is an alarm on the pump controls for the heat pump loop pumps.
8. Specification Section 26 3353: Paragraph 2.01 A. shall be revised to read as follows: " A. Eaton Corporation: www.eaton.com

Electrical

1. Sheet E1.2: Add three Metalux model BI-132-120-EB81-RS1 four foot long undercabinet lights with integral switches in Break 114. Connect these undercabinet lights to the lighting circuit serving the lights in this space.
2. Sheet E1.2: Add seven Metalux model BI-125-120-EB81-RS1 three foot long undercabinet lights with integral switches in Aux 911 122. Connect these undercabinet lights to the lighting circuit serving the lights in this space.
3. Sheet E1.2: Add two Metalux model BI-132-120-EB81-RS1 four foot long undercabinet lights with integral switches in Copy 106. Connect these undercabinet lights to the lighting circuit serving the lights in this space.
4. Sheet E1.2: Add two Metalux model BI-132-120-EB81-RS1 four foot long undercabinet lights with integral switches in Print 118. Connect these undercabinet lights to the lighting circuit serving the lights in this space.
5. Sheet E1.2: Add four Metalux model BI-132-120-EB81-RS1 four foot long undercabinet lights with integral switches in Break 116. Connect these undercabinet lights to the lighting circuit serving the lights in this space.
6. Sheet E1.2: Add two Metalux model BI-132-120-EB81-RS1 four foot long undercabinet lights with integral switches and one Metalux model BI-125-120-EB81-RS1 three foot long undercabinet lights with integral switches in Copy 146. Connect these undercabinet lights to the lighting circuit serving the lights in this space.
7. Sheet E1.2: Add three Metalux model BI-132-120-EB81-RS1 four foot long undercabinet lights with integral switches in Data 162. Connect these undercabinet lights to the lighting circuit serving the lights in this space.
8. Sheet E1.2: Add three Metalux model BI-132-120-EB81-RS1 four foot long undercabinet lights with integral switches in Break 114. Connect these undercabinet lights to the lighting circuit serving the lights in this space.

9. Sheet E1.2: Add three Metalux model BI-132-120-EB81-RS1 four foot long undercabinet lights with integral switches in Kitchen 177B. Connect these undercabinet lights to the lighting circuit serving the lights in this space.
10. Sheet E1.2: Add three Metalux model BI-125-120-EB81-RS1 three foot long undercabinet lights with integral switches in Kitchen 177A. Connect these undercabinet lights to the lighting circuit serving the lights in this space.
11. Sheet E1.2: The lights in Corridors 130 and 131 shall be connected to lighting circuit P6-17 in Operation Manager 141.
12. Sheet E1.2: The light switch in Radio Equipment 127 shall be revised to an occupancy sensor light switch designated on the plans as a switch symbol with DW next to it.
13. Sheet E1.2: In Breakout Planning 117 delete the 3-way light switches and replace the switch on the west wall with an occupancy sensor light switch designated on the plans as a switch symbol with DW next to it.
14. Sheet E1.2: In Print Room 118 delete the 3-way light switches and replace the switch on the west wall with an occupancy sensor light switch designated on the plans as a switch symbol with DW next to it.
15. Sheet E1.2: Revise light switch in Jan/Laundry 165 for Mech Mezzanine 201 lights to a 3-way switch.
16. Sheet E1.2: The two light switches in Policy 167 shall be revised to occupancy sensor light switches designated on the plans as a switch symbol with DW next to it.
17. Sheet E1.3: Add a 3-way switch at the top of the stair into Mech Mezzanine 201 for the lights in Mech Mezzanine 201.
18. Sheet E1.3: Provide a 20A, 1 pole breaker in panel PH2 to feed a duplex outlet designate for fire suppression system control power on the north wall of Mech Mezz 201 east of door 201A.
19. Sheet E2.2: All GFI outlets shown shall be individual GFI outlets and shall not rely on other GFI outlets in the circuit to trip them.
20. Sheet E2.2: Add a J-box for door power at the west door into Breakout Planning 117. Connect to the door lock circuit P2-6.
21. Sheet E2.2: Add J-boxes for door power to the interior doors in vestibule 125. Connect to the door power circuit P3-2.
22. Sheet E2.2: Delete the power circuit P2-8 for hand dryer from Restroom 163.
23. Sheet E2.2: Delete the power circuit P2-10 for hand dryer from Restroom 164.
24. Sheet E2.2: The five 20A, 1 pole circuits and the two 30A, 2 pole circuits indicated in Tele 165 to be connected to panel P6 shall be revised to be connected to the Panel EP2.
25. Sheet E2.2: Add five duplex outlets in Dispatch 129. Locate outlets as follows: one below the center window on the west wall, one centered on the ramp to the supervisors work area on the west wall, one east of door 129A on the north wall, one north of door 129 on the east wall, and one east of door 129B on the south wall. Connect three of the outlets to a 20 amp, 1 pole breaker at P5-20 and the other two outlets to a 20 amp, 1 pole breaker at P5-22.

26. Sheet E2.2: In Large Class 170 revise the circuit designated as P1-20 to feed from a 20A, 1 pole breaker in panel EP2.
27. Sheet E2.3: Delete the SSGB indicated in Serv. Equip 149.
28. Sheet E3.1: The ATS-1 indicated on the electric riser shall be a 4-pole ATS, to meet the County code requirement for the neutral to be disconnected from utility power when switching to generator power.

Plumbing

1. Sheet M1.3: Add a Dri-Steem Drane Kooler to the drain piping for humidifier HU-2 in the Radio Equip 127 with a 1/2" domestic cold water line to provide cooling water.
2. Sheet M1.4: Add a Dri-Steem Drane Kooler to the drain piping for humidifier HU-1 in the Mech Mezz 201 with a 1/2" domestic cold water line to provide cooling water.
3. Sheet M2.1: Note 2 shall be revised to read as follows: "Zurn model 874-U-12-LDRS, 12" wide, 6" deep light duty trench drain with solid steel cover and bottom outlet drain. Trench utilized for routing of HVAC piping to in-rack fan coil units supplied by others."
4. Sheet M2.1: Note 3 shall be revised to read as follows: "Two sets of 1-1/2" PEX chilled water supply and return piping, 3/4" PVC condensate piping, and 1/2" PEX domestic cold water piping routed to two in-rack fan coils provided by others."
5. Sheet M2.1: Add a urinal U-1 to restroom 172. Connect 2" waste, 1-1/4" vent, and 3/4" cold water to piping serving this restroom. See architectural drawing in this addendum for urinal location.
6. Sheet M2.1: Change the western water closet WC-1 in restroom 164 to a U-2 urinal. Urinal U-2 shall be the same as urinal U-1, but with the rim mounted at 24" AFF. Connect 2" waste, 1-1/4" vent, and 3/4" cold water to piping serving this restroom.
7. Sheet M3.1: In the Plumbing Fixture Connection schedule the cold water pipe size for the water closet shall be 1".

Fire Alarm / Fire Protection

1. Sheet FA1.1: Add an audio/visual device with 110 candela power in the ground floor on the west wall of Supply Storage 001.
2. Sheet FA1.2: Add an audio/visual device with 110 candela power on the west wall of Corridor 115 outside of Admin Assist 137.
3. Sheet FA1.2: Revise the south audio/visual device in Corridor 128 to a visual device with 110 candela power.
4. Sheet FA1.2: Add two visual devices with 110 candela power on the north wall of Corridor 150. Locate on device outside of IT Tech 153 and one outside of Mech Equip 155.
5. Sheet FA 1.2: Add a visual device with 110 candela power on south wall of Corridor 115 at the intersection of Corridor 174.
6. Sheet FA1.2: Add an audio/visual device with 110 candela power on the east wall of Corridor 174 outside of Break 176.

7. Sheet FA1.2: Add four smoke detectors evenly distributed throughout the space in Dispatch 129 for activation of the sprinkler system.
8. Sheet FA1.2: Add four smoke detectors evenly distributed throughout the space in ICC 123 for activation of the sprinkler system.
9. Sheet FA1.2: Add two smoke detectors evenly distributed throughout the space in Training 132 for activation of the sprinkler system.
10. Sheet FA1.2: Add two smoke detectors evenly distributed throughout the space in Supv Office 133 for activation of the sprinkler system.
11. Sheet FA1.2: Add two smoke detectors evenly distributed throughout the space in Radio Equip 127 for activation of the sprinkler system.
12. Sheet FA1.2: Add two smoke detectors evenly distributed throughout the space and one pull station in primary Data 162 for activation of the sprinkler system.
13. Sheet FA1.2: Add two smoke detectors evenly distributed throughout the space in Sec Data 161 for activation of the sprinkler system.
14. Sheet FA1.2: Add a visual device with 15 candela power on the south wall of Break 176.
15. Sheet FA1.2: Add a visual device with 15 candela power on the west wall of Lobby 102.
16. Sheet FA1.2: Add a interlock relay at the power doors on the north end of Vest 125.
17. Sheet FA1.2: Add an interlock relay on the power door between ICC 123 and Breakout Planning 117.
18. Sheet FA1.2: Relocate the FACP to the north wall of Lobby 102 just inside of vestibule 101.
19. Sheet FA1.2: Add a remote annunciator panel for the fire alarm system at the location indicated as the FACP in Dispatch 129. This annunciator panel shall have visual notification of alarms only with any audible alarms silenced.

Technology/Communications - SEE ADDENDUM #3A

END OF ADDENDUM

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

OFFEROR has examined copy of Addendum #3 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 06 4100
ARCHITECTURAL WOOD CASEWORK

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Specially fabricated cabinet units.
- B. Cabinet hardware.
- C. Shop Finishing.
- D. Preparation for installing utilities.

1.02 REFERENCE STANDARDS

- A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards; 2009.

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene a preinstallation meeting not less than one week before starting work of this section; require attendance by all affected installers.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
- C. Product Data: Provide data for hardware accessories.
- D. Samples: Submit actual samples of architectural cabinet construction, minimum 12 inches (300 mm) square, illustrating proposed cabinet, countertop, and shelf unit substrate and finish.
- E. Samples: Submit actual sample items of proposed pulls, hinges, shelf standards, and locksets, demonstrating hardware design, quality, and finish.

1.05 QUALITY ASSURANCE

- A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
 - 1. Company with at least five projects in the past 5 years with value of woodwork within 20 percent of cost of woodwork for this Project.

1.06 MOCK-UP

- A. Provide mock-up of typical base cabinet, wall cabinet, and countertop, including hardware and finishes.
- B. Locate where directed.
- C. Mock-up may remain as part of the Work.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Protect units from moisture damage.

1.08 FIELD CONDITIONS

- A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

PART 2 PRODUCTS

2.01 CABINETS

- A. Quality Grade: Unless otherwise indicated provide products of quality specified by AWI/AWMAC/WI Architectural Woodwork Standards for Custom Grade.
- B. Wood Veneer Faced Cabinets:
 - 1. Exposed Surfaces: Grade A, Red Oak, plain sliced, pleasing-matched.
 - 2. Semi-Exposed Surfaces: Grade B, Red Oak, rotary cut, pleasing-matched.
 - 3. Concealed Surfaces: Solid Stock of Fabricators option.

- C. Cabinet Construction:
 - 1. Full overlay drawer front style to match door fronts.
 - 2. 1/2" thick 7-ply veneer core plywood dovetail drawers.
 - 3. 5-piece full overlay doors, solid raised panel with wide stiles and rails; Profile similar to AWI figure 400-15.
 - 4. All plywood box construction.
 - 5. Adjustable full-depth shelves. Shelf Loading: 50 lbs. per sq. ft.

2.02 WOOD-BASED COMPONENTS

- A. Wood fabricated from old growth timber is not permitted.
- B. Hardwood Edgebanding: Use solid hardwood edgebanding matching species, color, grain, and grade for exposed portions of cabinetry.

2.03 ACCESSORIES

- A. Adhesive: Type recommended by fabricator to suit application.
- B. Fasteners: Size and type to suit application.
- C. Concealed Joint Fasteners: Threaded steel.
- D. Grommets: Standard plastic, painted metal, or rubber grommets for cut-outs, in color to match adjacent surface.

2.04 HARDWARE

- A. Adjustable Shelf Supports: Standard side-mounted system using recessed metal shelf standards or multiple holes for pin supports and coordinated self rests, polished chrome finish, for nominal 1 inch (25 mm) spacing adjustments.
- B. Drawer and Door Pulls: "U" shaped wire pull, aluminum with satin finish, 4 inch centers ("U" shaped wire pull, aluminum with satin finish, 100 mm centers).
- C. Drawer Slides:
 - 1. Static Load Capacity: Commercial grade.
 - 2. Mounting: Side mounted.
 - 3. Stops: Integral type.
 - 4. Features: Provide self closing/stay closed type.
- D. Hinges: Concealed (fully mortised) type, steel with satin finish.

2.05 FABRICATION

- A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
- D. Matching Wood Grain: Comply with requirements of quality standard for specified Grade and as follows:
 - 1. Provide balance matched panels at each elevation.
- E. Provide cutouts for plumbing fixtures. Verify locations of cutouts from on-site dimensions. Prime paint cut edges.

2.06 SHOP FINISHING

- A. Finish work in accordance with AWI/AWMAC/WI Architectural Woodwork Standards, Section 5 - Finishing for Grade specified and as follows:
 - 1. Transparent:
 - a. System - 1, Lacquer, Nitrocellulose.
 - b. Stain: As selected by Architect.
 - c. Sheen: Satin.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify adequacy of backing and support framing.
- B. Verify location and sizes of utility rough-in associated with work of this section.

3.02 INSTALLATION

- A. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- B. Use fixture attachments in concealed locations for wall mounted components.
- C. Use concealed joint fasteners to align and secure adjoining cabinet units.
- D. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch (1 mm). Do not use additional overlay trim for this purpose.
- E. Secure cabinets to floor using appropriate angles and anchorages.
- F. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces.

3.03 ADJUSTING

- A. Adjust installed work.
- B. Adjust moving or operating parts to function smoothly and correctly.

3.04 CLEANING

- A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

END OF SECTION

SECTION 08 7100

DOOR HARDWARE

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.02 SECTION INCLUDES

- A. Hardware for wood, hollow steel, and aluminum doors.
- B. Hardware for fire-rated doors.
- C. Electrically operated and controlled hardware.
- D. Thresholds.
- E. Weatherstripping, seals and door gaskets.
- F. Kick Plates and Protection Plates.

1.03 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings:
 - 1. Indicate locations and mounting heights of each type of hardware, schedules, catalog cuts.
 - 2. Submit manufacturer's parts lists.
- C. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention.
- D. Project Record Documents: Record actual locations of concealed equipment, services, and conduit.
- E. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
- F. Keys: Deliver with identifying tags to Owner by security shipment direct from hardware supplier.
- G. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- B. Hardware Supplier Qualifications: Company specializing in supplying commercial door hardware with 5 years of experience.

1.05 COORDINATION

- A. Coordinate the work with other directly affected sections involving manufacture or fabrication of internal reinforcement for door hardware.
- B. Furnish templates for door and frame preparation.
- C. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.

- D. Coordinate Owner's keying requirements during the course of the Work.

1.06 WARRANTY

- A. See Section 01780 - Closeout Submittals, for additional warranty requirements.

1.07 MAINTENANCE PRODUCTS

- A. Provide special wrenches and tools applicable to each different or special hardware component.
- B. Provide maintenance tools and accessories supplied by hardware component manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Hinges:
 - 1. Hager Companies: www.hagerhinge.com
 - 2. McKinney Products Company: www.mckinneyhinge.com
- B. Interior Lock and Latch Sets:
 - 1. Best: 9K Series, 14L Style; www.bestaccess.com
- C. FEMA 361 Lock and Latch Sets:
 - 1. Sargent: FM 7100 Series, Classroom function, L Style; www.sargentlock.com
 - a. The Three-Point locking system device is part of an integrated door, frame and hardware assembly UL-approved to both FEMA 361 and FEMA 320 guidelines for both in-swing and out-swing doors.
 - b. Units shall be manufacturing in compliance with NFPA 80 and NFPA 101 life-safety requirements and approved for usage on up to 3-hour, UL10b of 10c fire rated openings
 - c. Latchbolt Construction:
 - 1. Mortised Center bolt: single piece, 13 gage chrome plated steel lock case with 3/16" thick stainless steel front. Stainless steel, 1" throw deadbolt. 2-3/4" backset standard with 1/4" stainless steel center bolt strike
 - 2. Top Latch: Through-hardened steel latchbolt with 7/8" projection, 1/8" steel latchbolt front, and 5/8" stainless steel latch housing secured with 1/4-20 Holo-Krome® fasteners
 - 3. Bottom Bolt: 3/4" diameter steel nylon coated bolt with 3/4" projection and 1/8" steel reinforcement plate. Brass strike housing secured with 1/4-20 Holo-Krome® fasteners
 - d. Provide devices with heavy-duty, brass escutcheon trim and solid cast levers matching the design style and architectural finishes as the balance of the lockset and latches specified
- C. Lock Cores: Provide for all locking devices including lock and latch sets, panic hardware and FEMA 361 Lock and Latch sets..
 - 1. Best: 7-pin core or blank core where designated; www.bestaccess.com
- D. Push/Pulls:
 - 1. Rockwood Manufacturing Company: www.rockwoodmfg.com
- F. Exit Devices:
 - 1. Von Duprin: www.vonduprin.com
- F. Electric Strikes:
 - 1. In Door Stile: HES Innovations/Folger Adam: <http://www.hesinnovations.com>
 - 2. Rim Mounted: Von Duprin: www.vonduprin.com
- G. Closers: Always install closers on Secure Side of Door-Verify with Architect.
 - 1. LCN: www.lcnclosers.com

- H. Wall and Floor Stops/holders:
 - 1. Rockwood Manufacturing Company: www.rockwoodmfg.com
- I. Gasketing and Thresholds:
 - 1. Hager Companies: www.hagerhinge.com
- J. Pocket Door Kit: Provide a complete kit for installation and operation.
 - 1. Johnson Hardware: www.johnsonhardware.com
- K. DOOR POSITION SWITCH (DPS) – BALANCED MAGNETIC SWITCH (BMS)

1. The DPS contact and the magnet shall be hermetically in a one piece, molded, flame retardant ABS plastic housing for maximum strength and durability. The reed shall be potted in the contact housing with a polyurethane based compound. The contact and magnet shall snap-lock into a predrilled 3/4" or 1" diameter hole. Color of the housing shall be off white, gray, or mahogany, and shall be provided in the appropriate color to match the door and doorframe. The magnet shall be made of Alnico V. The single pole/ double throw recessed door position switch shall be GE Security/ Sentrol 1076 or an approved equal. The double pole/ double throw recessed door position switch for this project shall be UTC/ GE Security 1076D or an approved equal.

2. The high-security BMS shall be specifically designed for high-security applications where indicated on the plans. All contacts and magnets within the housing shall be potted in a polyurethane based compound. The total encapsulation of the balanced triple reed switch, coupled with recess mounting, shall prevent access to the magnetic switch & cabling and shall make defeat of the switch virtually impossible. The triple reed features shall have the ability to detect tampering with an external magnet to prevent bypass and override defeat. Attempted tampering of this device shall trigger the contact to send an alarm to the security monitoring system. The Balanced Magnetic Switch shall be factory calibrated to operate in steel doors and frames and shall not be subject to freezing on seldom used doors. The BMS shall conform to the specifications for Class IV balanced magnetic contacts and shall be UL rated for central station direct wire circuits, indoor and outdoor. Each contact shall have a faceplate of 14-gauge stainless steel with mounting holes, on 4.125 inch centers, countersunk for #8 flat head screws. The BMS shall be designed to fit into standard ANSI cutouts for mortise installations. The contacts shall have an actuating gap distance of up to .4 inches and shall be provided with a supervisory loop.

The SPDT BMS with 3 independent Form C class reed switches shall be a UTC/ GE Security 2757/2767 series device or an approved equal. The DPDT BMS with 6 independent Form C class reed switches shall be UTC/ GE Security 2757D device or an approved equal.

Note: Verify unique door prep is fully coordinated on all doors shown to receive a BMS.

3. The standard roll-up door position switch shall be UTC/ GE Security 2200 series contact or approved equal.

4. All double doors shall receive (1) magnetic door position switch on each door leaf and shall be wired in series to report as one alarm point.

- L. Substitutions: See Section 01 6000 Product Requirements.

2.02 GENERAL REQUIREMENTS FOR DOOR HARDWARE PRODUCTS

- A. Provide products that comply with the following:
 - 1. Applicable provisions of Federal, State, and local codes.
 - 2. ANSI/ICC A117.1, American National Standard for Accessible and Usable Buildings and

Facilities.

3. Fire-Rated Doors: NFPA 80.
4. All Hardware on Fire-Rated Doors: Listed and classified by UL as suitable for the purpose specified and indicated.

2.03 FINISHES

- A. Finish on All Exposed Metal Items: US26D (626), unless otherwise noted.
 1. Exceptions:
 - a. Hinges: Where steel hinges are acceptable, use matching plated finish.
 - b. As indicated for specific items.
 2. Items specified with the same finish shall match as closely as commercially possible.
 3. Provide finishes matching ANSI/BHMA A156.18 designations.

2.04 KEYING

- A. Door Locks: Grand master keyed. All doors indicated to have locking hardware to be provided with Best 7-pin cores to match Owner's existing lock systems-verify all requirements with Owner.
- B. Key Cabinet: Provide key cabinet by Lund Equipment, Talkee Incorporated or Key Control.
- C. Supply keys in the following quantities:
 1. 5 master keys.
 2. 5 grand master keys.
 3. 5 change keys for each lock.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that doors and frames are ready to receive work and dimensions are as indicated on shop drawings.
- B. Verify that electric power is available to power operated devices and of the correct characteristics.

3.02 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and applicable codes.
- B. Use templates provided by hardware item manufacturer.
- C. Install hardware on fire-rated doors and frames in accordance with code and NFPA 80.
- D. Mounting heights for hardware from finished floor to center line of hardware item: As listed in Schedule, unless otherwise noted:
 1. For steel doors and frames: Comply with DHI "Recommended Locations for Architectural Hardware for Steel Doors and Frames."
 2. For wood doors: Comply with DHI "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- C. Coordinate installation of all electrically controlled products with Owner's Security Vendor/Contractor and Electrical Contractor.

3.03 FIELD QUALITY CONTROL

- A. Field inspection and testing will be performed under provisions of Section 014000.

3.04 ADJUSTING

- A. Adjust work under provisions of Section 017000.

B. Adjust hardware for smooth operation.

3.05 PROTECTION OF FINISHED WORK

A. Protect finished Work under provisions of Section 017000.

B. Do not permit adjacent work to damage hardware or finish.

3.06 HARDWARE SCHEDULE-

Exterior Doors:

Hardware Group 1: Exterior Storm Rated Aluminum Entrance-Pair of Doors 101.

| | | | |
|-------|-------|---------------|------|
| 2 ea. | | Cont. Hinge | |
| 1 ea. | | Closer | |
| 1 ea. | | Auto Operator | |
| 2 ea. | | Exit Device | |
| 1 ea. | 7-pin | Lock Core | Best |

Note: Opening shall meet criteria and have been tested for FEMA 361; Weatherstripping and threshold by aluminum door manufacturer. Aluminum Door manufacturer to provide all door hardware except lock core.

Hardware Group 2: Exterior Storm Rated Aluminum Single Door 157

| | | | |
|-------|-------|---------------|------|
| 1 ea. | | Cont. Hinge | |
| 1 ea. | | Auto Operator | |
| 1 ea. | | Exit Device | |
| 1 ea. | 7-pin | Lock Core | Best |

Note: Opening shall meet criteria and have been tested for FEMA 361; Weatherstripping and threshold by aluminum door manufacturer. Aluminum Door manufacturer to provide all door hardware except lock core.

Hardware Group 3: Exterior Storm Rated Single Door 006

| | | | |
|-------|----------------|----------------------|------------------|
| 1 ea. | 780-112HD RETW | Cont. Hinge | Hager |
| 1 ea. | 4040 | Closer | LCN |
| 1 ea. | WS9927 EO | Exit Device | Von Duprin |
| 1 ea. | 7-pin | Lock Core | Best |
| 1 ea. | 810 DBA | Drip Guard | Hager |
| 1 ea. | 520S N | Threshold | Hager |
| 1 ea. | 881S N | Weatherstrip | Hager |
| 1 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Opening shall meet criteria for FEMA 361. Coordinate all work with access control system.

Hardware Group 4: Exterior Storm Rated Single Door 180

| | | | |
|-------|------------|----------------------|------------------|
| 1 ea. | MCK- HG305 | Cont. Hinge | MCKINNEY |
| 1 ea. | 4040 | Closer | LCN |
| 1 ea. | FM 7100 | Latch | Sargent |
| 1 ea. | 7-pin | Lock Core | Best |
| 1 ea. | 810 DBA | Drip Guard | Hager |
| 1 ea. | 520S N | Threshold | Hager |
| 1 ea. | 881S N | Weatherstrip | Hager |
| 1 ea. | 194S | Kick Plate | Hager |
| 1 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Opening shall meet criteria for FEMA 361. Coordinate all work with access control system.

Hardware Group 5: Exterior Storm Rated Single Door 002, 121, 182

| | | | |
|-------|----------------|----------------------|------------------|
| 1 ea. | MCK- HG305 | Cont. Hinge | MCKINNEY |
| 1 ea. | 4040 | Closer | LCN |
| 1 ea. | WS9927 x E996L | Exit Device | Von Duprin |
| 1 ea. | 7-pin | Lock Core | Best |
| 1 ea. | 194S | Kick Plate | Hager |
| 1 ea. | 520S N | Threshold | NGP |
| 1 ea. | 881S N | Weatherstrip | Hager |
| 1 ea. | 810 DBA | Drip Guard | Hager |
| 1 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Opening shall meet criteria for FEMA 361. Coordinate all work with access control system.

Hardware Group 6: Exterior Storm Rated Pair of Doors 154A, 155A, 181, *201A

| | | | |
|-------|-----------------|----------------------|------------------|
| 2 ea. | MCK--HG305 | Cont. Hinge | MCKINNEY |
| 1 ea. | 4040 on LHRB | Closer | LCN |
| 1 ea. | FM 7100 on LHRB | Latch | Sargent |
| 1 ea. | 7-pin | Lock Core | Best |
| 2 ea. | 988 on RHRB | Surface Bolts | Sargent |
| 2 ea. | 194S | Kick Plate | Hager |
| 1 ea. | 881S N | Weatherstrip | Hager |
| 2 ea. | 750S N | Door Sweeps | Hager |
| 1 ea. | 520S N | Threshold | Hager |
| 1 ea. | 881S N | Weatherstrip | Hager |
| 2 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Opening shall meet criteria for FEMA 361; Astragal on active leaf by door manufacturer.

* No Door position Switch for door 201A. Coordinate all work with access control system.

Hardware Group 7: Exterior Storm Rated Pair of Doors 125

| | | | |
|-------|----------------|----------------------|------------------|
| 2 ea. | MCK- HG305 | Cont. Hinge | MCKINNEY |
| 2 ea. | 4040 | Closer | LCN |
| 2 ea. | WS9927 x E996L | Exit Device | Von Duprin |
| 1 ea. | 7-pin | Lock Core | Best |
| 2 ea. | 194S | Kick Plate | Hager |
| 1 ea. | 520S N | Threshold | NGP |
| 1 ea. | 881S N | Weatherstrip | Hager |
| 2 ea. | 750S N | Door Sweeps | Hager |
| 1 ea. | 810 DBA | Drip Guard | Hager |
| 2 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Opening shall meet criteria for FEMA 361. Coordinate all work with access control system.

Interior Doors:

Hardware Group 8: Ballistic Rated Aluminum Single Door 157A.

| | | | |
|-------|-------|----------------------|------------------|
| 1 ea. | | Cont. Hinge | |
| 1 ea. | | Closer | |
| 1 ea. | | Exit Device | |
| 1 ea. | 7-pin | Lock Core | Best |
| 1 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Aluminum Door manufacturer to provide all door hardware except lock core and door position switch. This is a Level 4 ballistic Door.

Hardware Group 9: Entrance-Pair of Doors 102

| | | | |
|-------|-------|----------------------|------------------|
| 2 ea. | | Cont. Hinge | |
| 2 ea. | | Closer | |
| 2 ea. | | Exit Device | |
| 1 ea. | 7-pin | Lock Core | Best |
| 2 ea. | 403 | Wall Stop | ROCKWOOD |
| 2 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Aluminum Door manufacturer to provide all door hardware except lock core, door position switch and wall stops. This is a Level 4 ballistic Door. Coordinate all work with access control system.

Hardware Group 10: Door 121A

| | | | |
|-------|----------------|----------------------|------------------|
| 1 ea. | 780-112HD RETW | Cont. Hinge | Hager |
| 1 ea. | 4040 | Closer | LCN |
| 1 ea. | WS9927 x E996L | Exit Device | Von Duprin |
| 1 ea. | 7-pin | Lock Core | Best |
| 1 ea. | 194S | Kick Plate | Hager |
| 1 ea. | 881S N | Weatherstrip | Hager |
| 1 ea. | 403 | Wall Stop | ROCKWOOD |
| 1 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Coordinate all work with access control system

Hardware Group 11: Doors 001

| | | | |
|-------|------------------------|---------|-------|
| 3 ea. | BB1279 4-1/2x4-1/2 NRP | Butts | Hager |
| 1 ea. | 4040 | Closer | LCN |
| 1 ea. | ANSI F75 | Lockset | Best |

Hardware Group 12: Exit Stair Door 129B, 151

| | | | |
|-------|------------------------|----------------------|------------------|
| 3 ea. | BB1279 4-1/2x4-1/2 NRP | Butts | HAGER |
| 1 ea. | 4040 | Closer | LCN |
| 1 ea. | 9927L | Exit Device | Von Duprin |
| 1 ea. | 7-pin | Lock Core | Best |
| 1 ea. | 194S | Kick Plate | Hager |
| 1 ea. | 881S N | Weatherstrip | Hager |
| 1 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Coordinate all work with access control system

Hardware Group 13: Passage Doors 163, 163A, 164, 164A

| | | | |
|-------|------------------------|--------|----------|
| 3 ea. | BB1279 4-1/2x4-1/2 NRP | Butts | HAGER |
| 1 ea. | 125 x 70C | Pull | ROCKWOOD |
| 1 ea. | 70C | Push | ROCKWOOD |
| 1 ea. | 4040 | Closer | LCN |

| | | | |
|-------|-----|-----------|----------|
| 1 ea. | 406 | Wall Stop | ROCKWOOD |
|-------|-----|-----------|----------|

Hardware Group 14: Privacy Doors 104, 171, 172

| | | | |
|-------|------------------------|---------|-------|
| 3 ea. | BB1279 4-1/2x4-1/2 NRP | Butts | HAGER |
| 1 ea. | ANSI F76 | Lockset | Best |
| 1 ea. | 4040 | Closer | LCN |

Hardware Group 15: Doors 107, 110, 111, 112, 113, 119, 122, 134, 135, 137, 138, 141, 142, 143, 147, 148, 170, 173, 176, 177, 178, 180A

| | | | |
|-------|------------------------|-----------|----------|
| 3 ea. | BB1279 4-1/2x4-1/2 NRP | Butts | Hager |
| 1 ea. | ANSI F109 (Blank Core) | Lockset | Best |
| 1 ea. | 403 | Wall Stop | Rockwood |

Hardware Group 16: Doors 108, 109, 120, 133, 136, 139, 149, 152, 165, 156, 179, 181A,

| | | | |
|-----------|------------------------|-----------|----------|
| 1-1/2 pr. | BB1279 4-1/2x4-1/2 NRP | Butts | Hager |
| 1 ea. | ANSI F109 | Lockset | Best |
| 1 ea. | 403 | Wall Stop | Rockwood |

Hardware Group 17: Doors 102B, 106, 128, 131, 153

| | | | |
|-------|------------------------|----------------------|------------------|
| 3 ea. | BB1279 4-1/2x4-1/2 NRP | Butts | Hager |
| 1 ea. | ANSI F109 | Lockset | Best |
| 1 ea. | 4040 | Closer | LCN |
| 1 ea. | 310-2 | Electric Strike | HES |
| 1 ea. | 403 | Wall Stop | ROCKWOOD |
| 1 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Coordinate all work with access control system

Hardware Group 18: Pocket Door 118

| | | | |
|-------|------|-------------------|------------------|
| 1 ea. | 2060 | Pocket Door Kit | Johnson Hardware |
| 1 ea. | 330D | Pocket Door Latch | Hager |

Hardware Group 19: Doors 117, 118A, 123A, 129A, 132

| | | | |
|-------|------------------------|----------------------|------------------|
| 3 ea. | BB1279 4-1/2x4-1/2 NRP | Butts | Hager |
| 1 ea. | ANSI F109 | Lockset | Best |
| 1 ea. | 4040 | Closer | LCN |
| 1 ea. | 6212WF | Electric Strike | Von Duprin |
| 1 ea. | 862S N | Perimeter Seal | Hager |
| 1 ea. | 747S N | Auto Door Bottom | Hager |
| 1 ea. | 403 | Wall Stop | ROCKWOOD |
| 1 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Coordinate all work with access control system

Hardware Group 20: Doors 117A, 144, 158, 159, 160, 166, 167, 168

| | | | |
|---------|------------------------|----------------------|------------------|
| 3 ea. | BB1279 4-1/2x4-1/2 NRP | Butts | Hager |
| *1 ea. | ANSI F109 (Blank Core) | Lockset | Best |
| 1 ea. | 4040 | Closer | LCN |
| 1 ea. | 862S N | Perimeter Seal | Hager |
| 1 ea. | 747S N | Auto Door Bottom | Hager |
| 1 ea. | 403 | Wall Stop | ROCKWOOD |
| **1 ea. | 1076D | Door Position Switch | UTC/ GE Security |

* At Door 168 provide 7-pin core

** At Doors 158, 159 only install Door Position Switch

Note: Coordinate all work with access control system where door position switches are indicated.

Hardware Group 21: Interior Pair of Doors 103, 124, 145, 169

| | | | |
|-------|------------------------------|------------|----------|
| 6 ea. | BB1168 4-1/2x4-1/2 NRP | Butts | HAGER |
| 1 ea. | 4041 on RHRB | Closer | LCN |
| 1 ea. | ANSI F109(Blank Core)on RHRB | Lockset | Best |
| 1 ea. | 283D on LHRB | Flush Bolt | IVES |
| 2 ea. | 441CU | Floor Stop | ROCKWOOD |

Hardware Group 22: Pair of Doors 125A

| | | | |
|-------|------------------------|----------------------|------------------|
| 6 ea. | BB1168 4-1/2x4-1/2 NRP | Butts | HAGER |
| 2 ea. | 4040 | Closer | LCN |
| 2 ea. | WS9927 x E996L | Exit Device | Von Duprin |
| 1 ea. | 7-pin | Lock Core | Best |
| 2 ea. | 194S | Kick Plate | Hager |
| 1 ea. | 520S N | Threshold | Hager |
| 2 ea. | 403 | Wall Stop | ROCKWOOD |
| 2 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Coordinate all work with access control system

Hardware Group 23: Pair of Doors 127, 162

| | | | |
|-------|------------------------|----------------------|------------------|
| 5 ea. | BB1279 4-1/2x4-1/2 NRP | Butts | Hager |
| 1 ea. | BB1279 4-1/2x4-1/2 ETW | Elect Hinge | Hager |
| 1 ea. | *4040 on LHRB | Closer | LCN |
| 1 ea. | *ANSI F86 on LHRB | Lockset | Best |
| 1 ea. | *310-2 on RHRB | Electric Strike | HES |
| 2 ea. | *275D on RHRB | Surface Bolts | Hager |
| 1 ea. | 881S N | Perimeter Seal | Hager |
| 1 ea. | 194S | Kick Plate | Hager |
| 2 ea. | 441CU | Floor Stop | ROCKWOOD |
| 2 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Coordinate all work with access control system

Hardware Group 24: Pair of Doors 123

| | | | |
|-------|------------------------|----------------------|------------------|
| 6 ea. | BB1168 4-1/2x4-1/2 NRP | Butts | HAGER |
| 2 ea. | 4040 | Closer | LCN |
| 2 ea. | WS9927 x E996L | Exit Device | Von Duprin |
| 1 ea. | 7-pin | Lock Core | Best |
| 2 ea. | 194S | Kick Plate | Hager |
| 1 ea. | 862S N | Perimeter Seal | Hager |
| 2 ea. | 747S N | Auto Door Bottom | Hager |
| 1 ea. | 847S/848S Set | Meeting Stile | Hager |
| 2 ea. | 403 | Wall Stop | ROCKWOOD |
| 2 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Coordinate all work with access control system

Hardware Group 25: Interior Pair of Doors 154, 155

| | | | |
|-------|------------------------|----------------|----------|
| 6 ea. | BB1279 4-1/2x4-1/2 NRP | Butts | Hager |
| 1 ea. | 4040 on RHRB | Closer | LCN |
| 1 ea. | ANSI F75 on RHRB | Lockset | Best |
| 1 ea. | 721S | Perimeter Seal | Hager |
| 1 ea. | 194S | Kick Plate | Hager |
| 2 ea. | 275D on LHRB | Surface Bolts | Hager |
| 1 ea. | 403 | Wall Stop | Rockwood |

Hardware Group 26: Pair of Doors 129

| | | | |
|-------|------------------------|----------------------|------------------|
| 5 ea. | BB1279 4-1/2x4-1/2 NRP | Butts | Hager |
| 1 ea. | BB1279 4-1/2x4-1/2 ETW | Elect Hinge | Hager |
| 1 ea. | 4040 on RHRB | Closer | LCN |
| 1 ea. | ANSI F86 on RHRB | Lockset | Best |
| 1 ea. | 310-2 on LHRB | Electric Strike | HES |
| 2 ea. | 275D on LHRB | Surface Bolts | Hager |
| 1 ea. | 881S N | Perimeter Seal | Hager |
| 1 ea. | 194S | Kick Plate | Hager |
| 2 ea. | 441CU | Floor Stop | ROCKWOOD |
| 2 ea. | 1076D | Door Position Switch | UTC/ GE Security |

Note: Coordinate all work with access control system

Hardware Group 27: Pair of Doors 102A

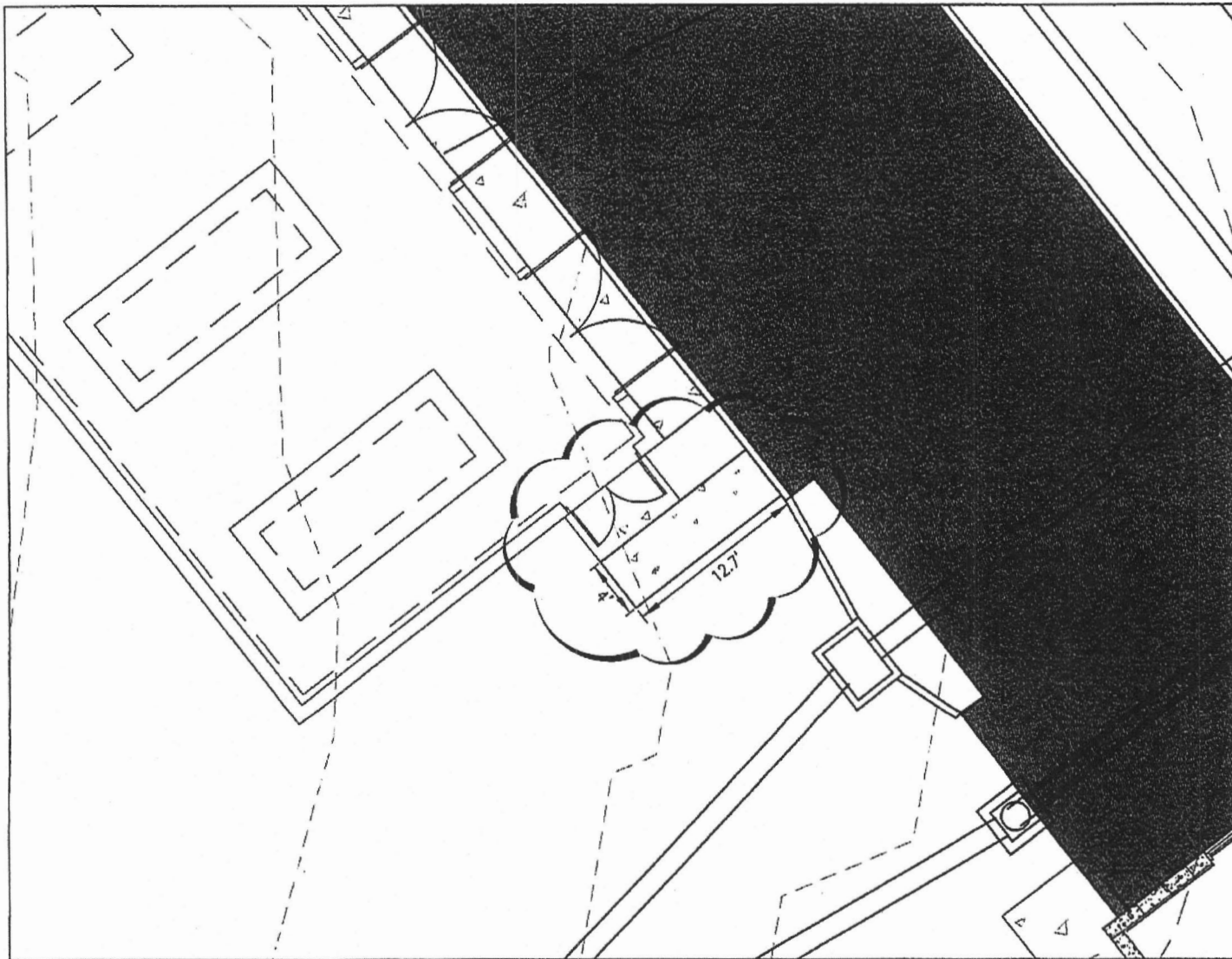
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|-------|------------------------|-------------|------------|
| 6 ea. | BB1168 4-1/2x4-1/2 NRP | Butts | HAGER |
| 2 ea. | 4040 | Closer | LCN |
| 2 ea. | WS9927 x E996L | Exit Device | Von Duprin |
| 1 ea. | 7-pin | Lock Core | Best |
| 2 ea. | 403 | Wall Stop | ROCKWOOD |

Hardware Group 28: Sliding Aluminum Door 161-See Section 084313

| | | | |
|-------|-------|-----------|------|
| 1 ea. | 7-pin | Lock Core | Best |
|-------|-------|-----------|------|

Note: Door Pull by Door Manufacturer

END OF SECTION



Architects
Design
Group

Architects and Planners
I.S.K. Reeves V, F.A.I.A.
Ian A. Reeves, A.I.A.
Kevin Rutigan, A.I.A., LEED-AP

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

Corporate Registration
Number: 2010003481

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- scale: N.T.S.
- drawn: D.P.
- checked: B.H.
- approved: B.H.
- date: 12-4-14
- project no.
916

• sheet title:
SIDEWALK ADDITION

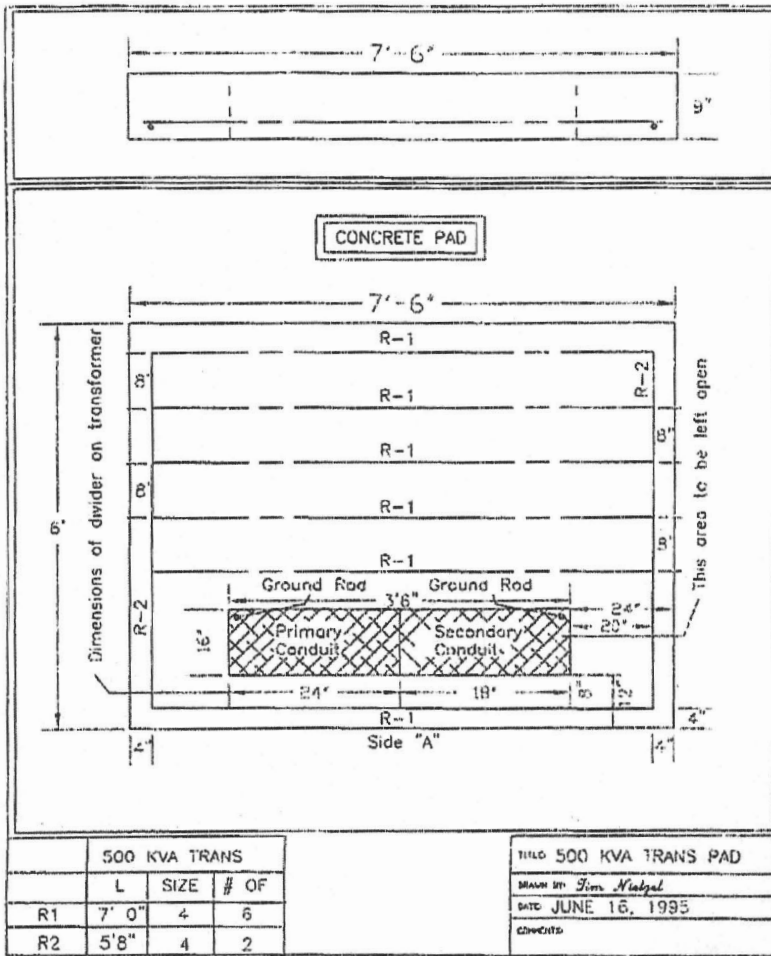
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Conduits may go in any direction from pad -- Side "A" must face away from building or other obstructions to allow sufficient working space -- Other sides of pad to be a minimum of ()' from building or other obstructions -- 3/4"x8' Ground rod to be driven in duct opening -- All primary and secondary cables must enter transformer through duct opening and must be in conduit -- Primary area shall have at least one 4" conduit and have to extend past outer edge of at least 1' and be 3' deep -- Concrete to be reinforced with regular steel reinforcing rods sized and spaced as shown -- Pad forms must be inspected by Boone Electric Engineering Division before concrete is placed.



* DETAIL PROVIDED BY
BOONE ELECTRIC COOPERATIVE



Architects and Planners
L.S.K. Rouse V. F.A.I.A.
Ian A. Rouse, A.I.A.
Kevin Ritzgen, A.I.A., LEED-AP
333 N. Knoxville Ave.
Winter Park, Florida 32789
P: (407) 847-1706
Corporate Registration
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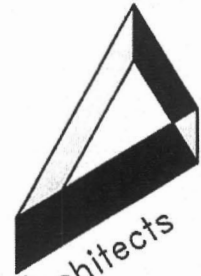
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TRANSFORMER
PAD

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Architects
Design
Group

Architects and Planners
I.S.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 32789
P: (407) 647-1706

Corporate Registration
Number: 2010003481

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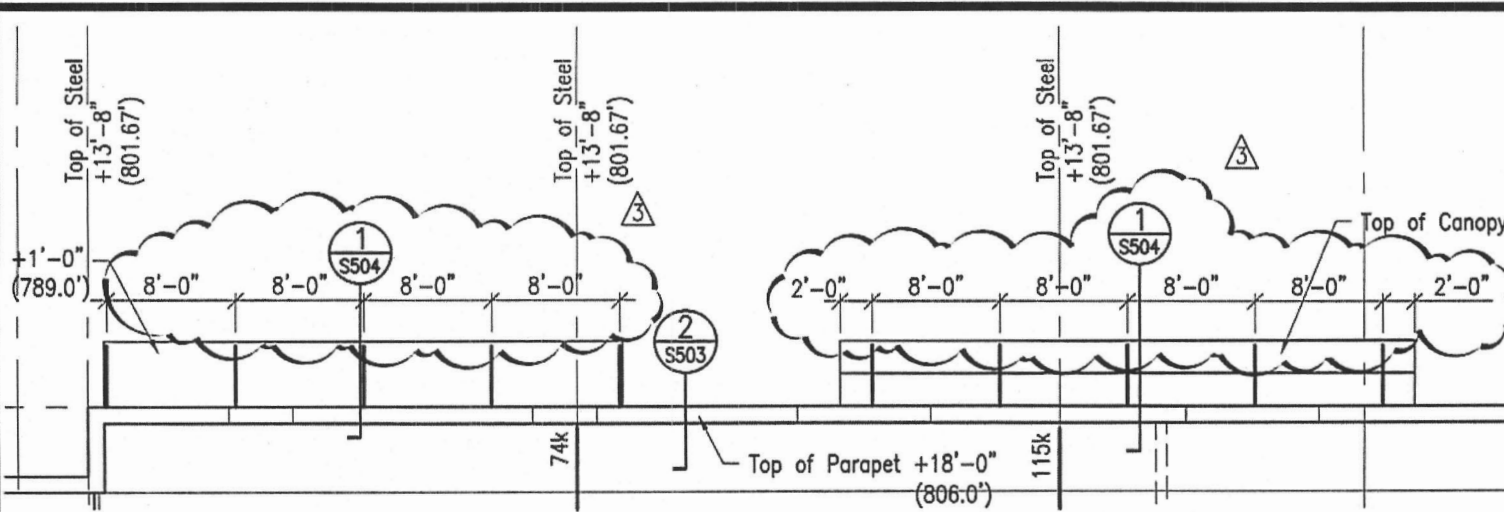
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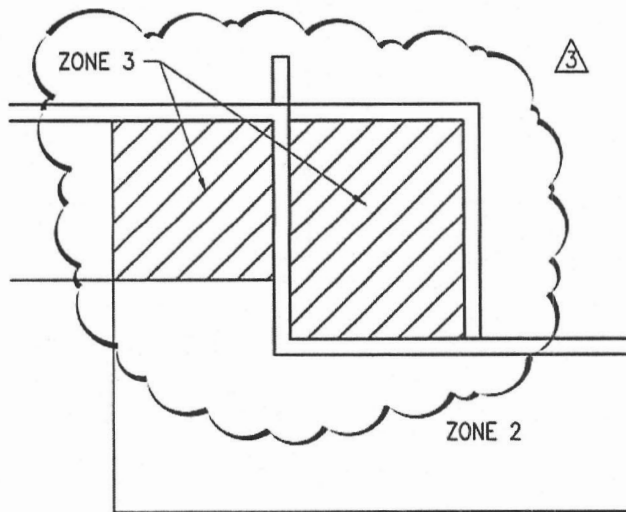
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Sheet 1

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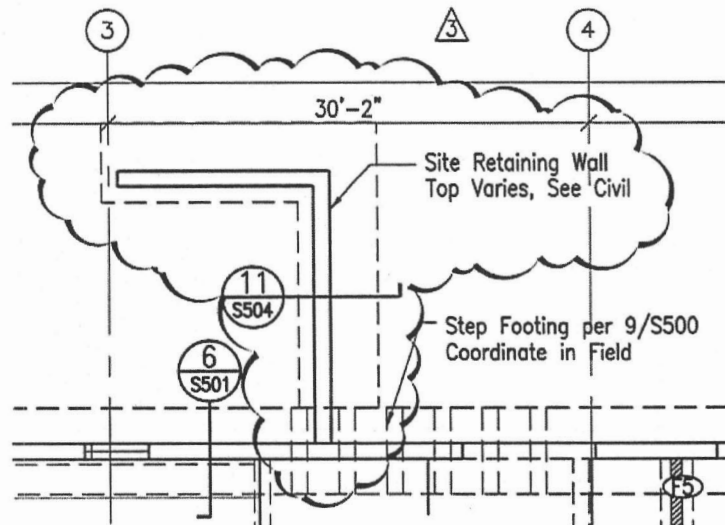
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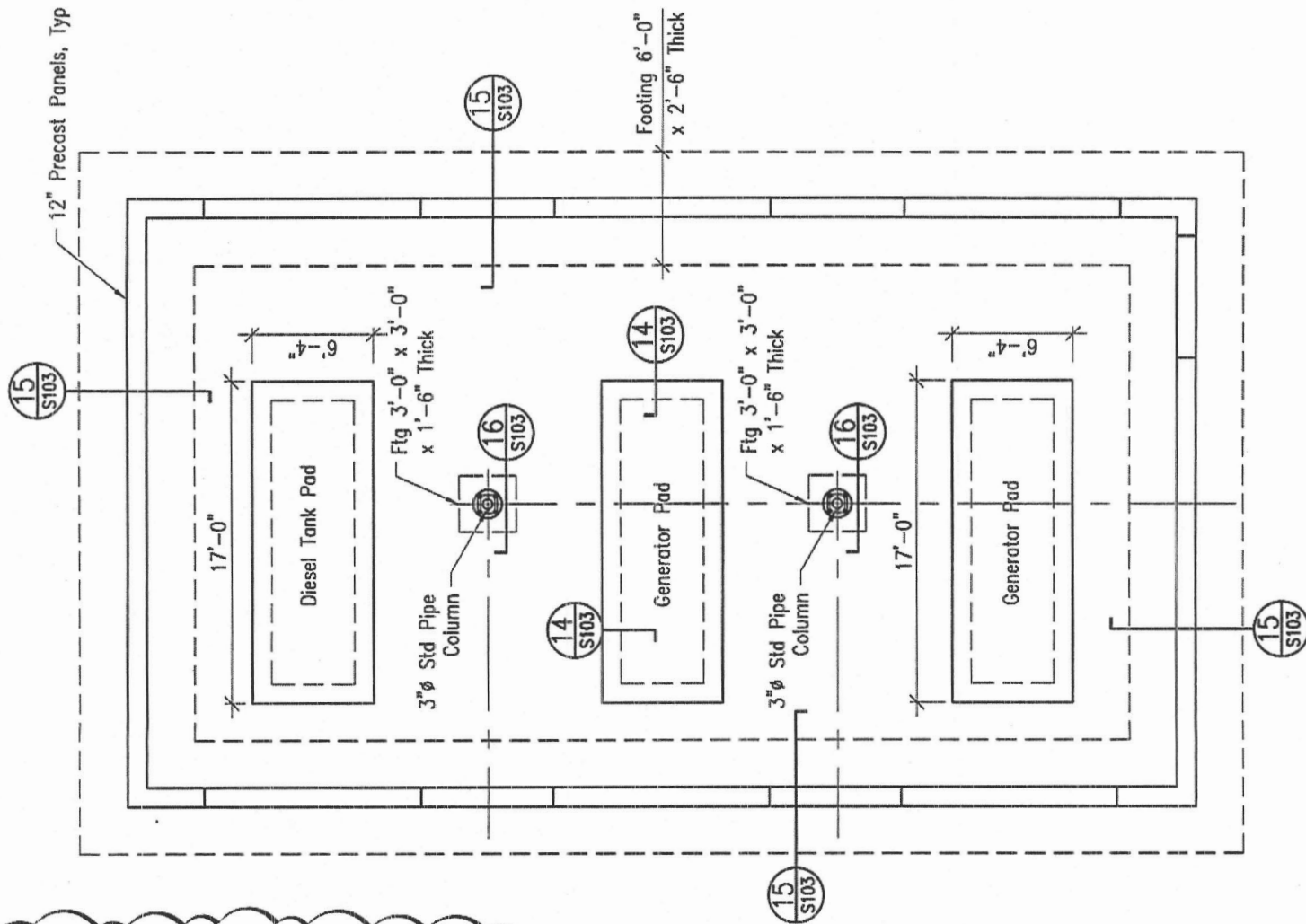
3 Low Roof Framing Plan (Detail)
A3-1 Ref. 1/S201 | 3/32"=1'-0"



1 Roof Wind Uplift Load (Detail)
A3-1 Ref. S002 | N.T.S.

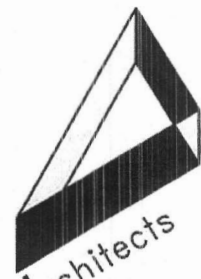


2 Foundation Plan (Detail)
A3-1 Ref. 1/S101 | 3/32"=1'-0"



Note: Extend Concrete Pad A Minimum of 6" Beyond Edges of Equipment On All Sides. See Mechanical Drawings for Equipment Sizes

1 Generator Enclosure Foundation Plan
 A3-2 Ref. 5/S103 | 1/8"=1'-0"



**Architects
 Design
 Group**

Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Ratigen, A.I.A., LEED-AP
 333 N. Knoxville Ave.
 Winter Park, Florida 32789
 P: (407) 947-1700
 Corporate Registration
 Number: 201003481

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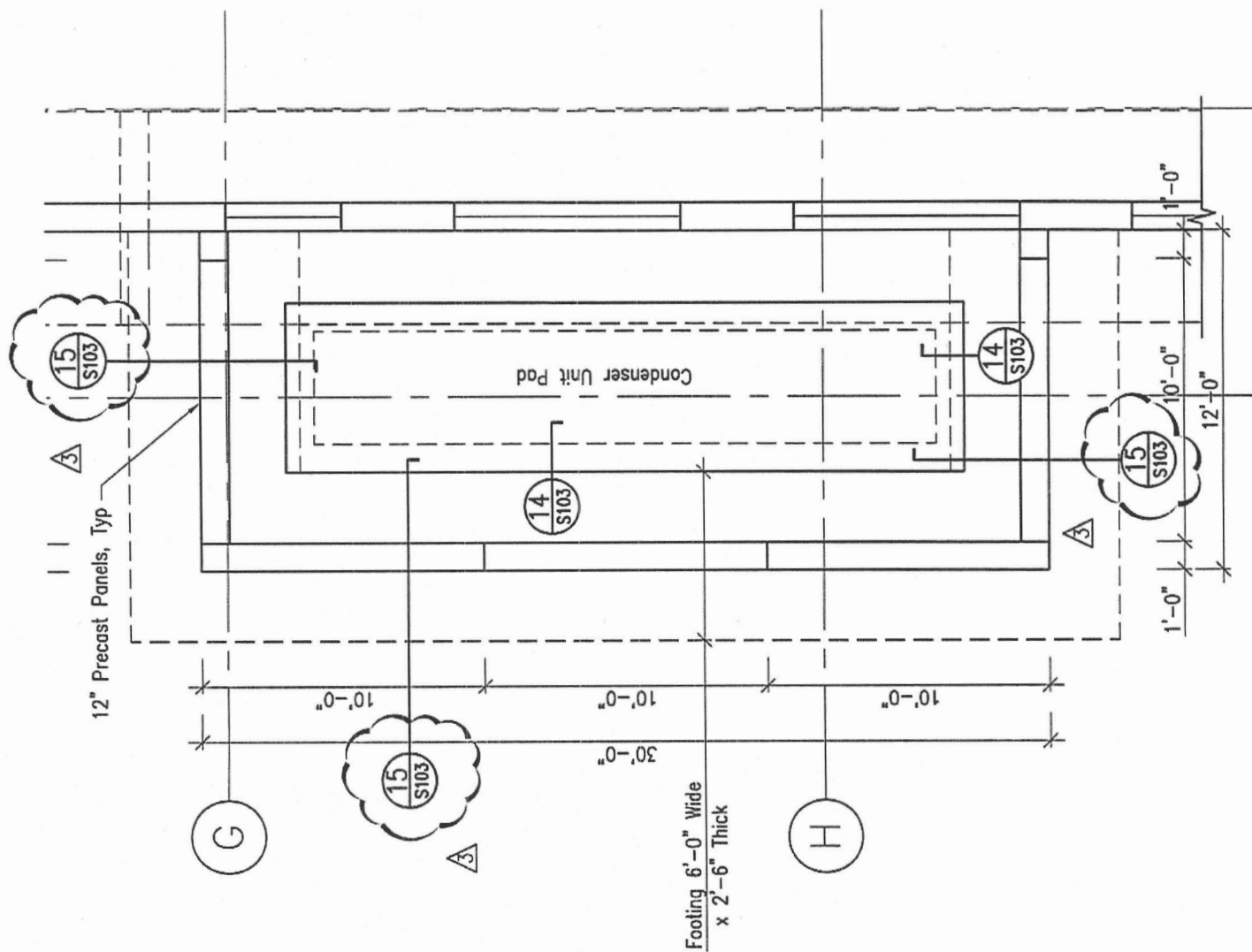
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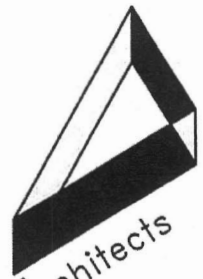
• sheet reference:

A3-2



1 Condenser Enclosure Foundation Plan
 A3-3 Ref. 7/S103 | 3/16"=1'-0"

Note: Extend Concrete Pad A Minimum of 6" Beyond Edges of Equipment On All Sides. See Mechanical Drawings for Equipment Sizes



**Architects
 Design
 Group**

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

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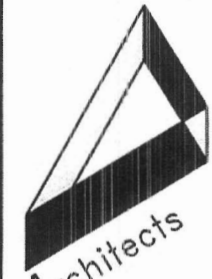
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 Sheet 3**

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A3-3



**Architects
Design
Group**

Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Rutigan, A.I.A., LEED-AP
 333 N. Knowles Pkwy.
 Winter Park, Florida 32780
 P: (407) 647-1706
 Corporate Registration
 Number: 2010033481

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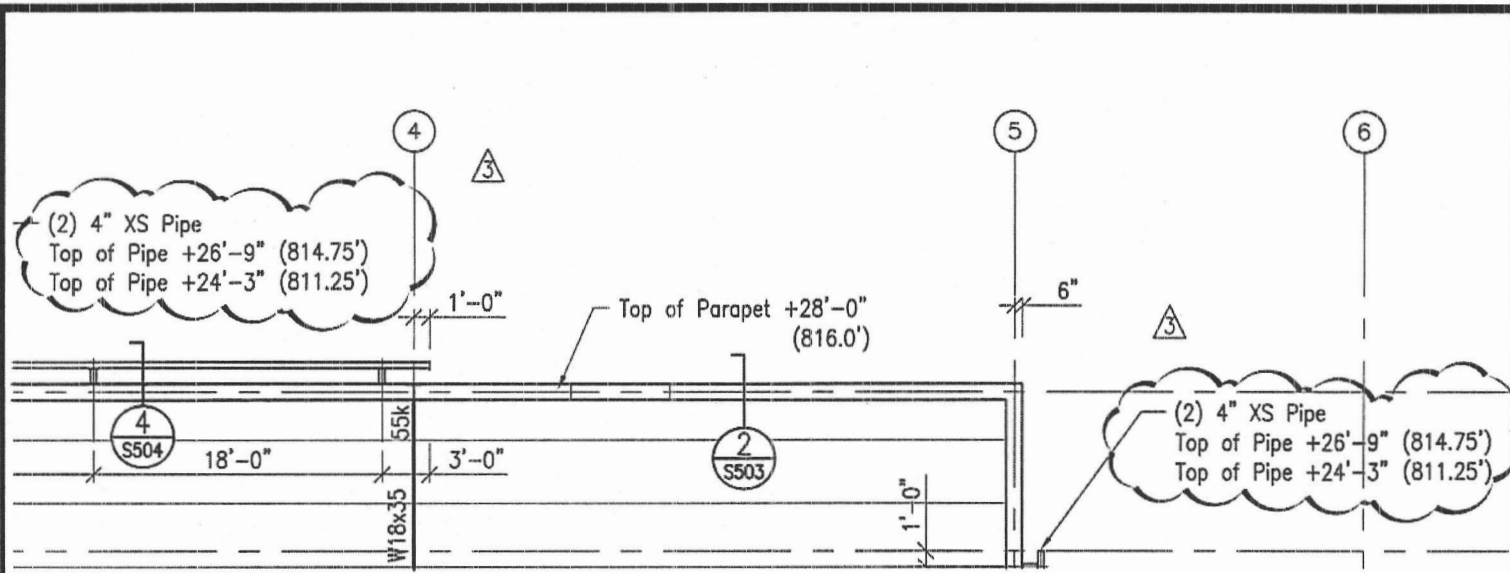
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- project no. 916

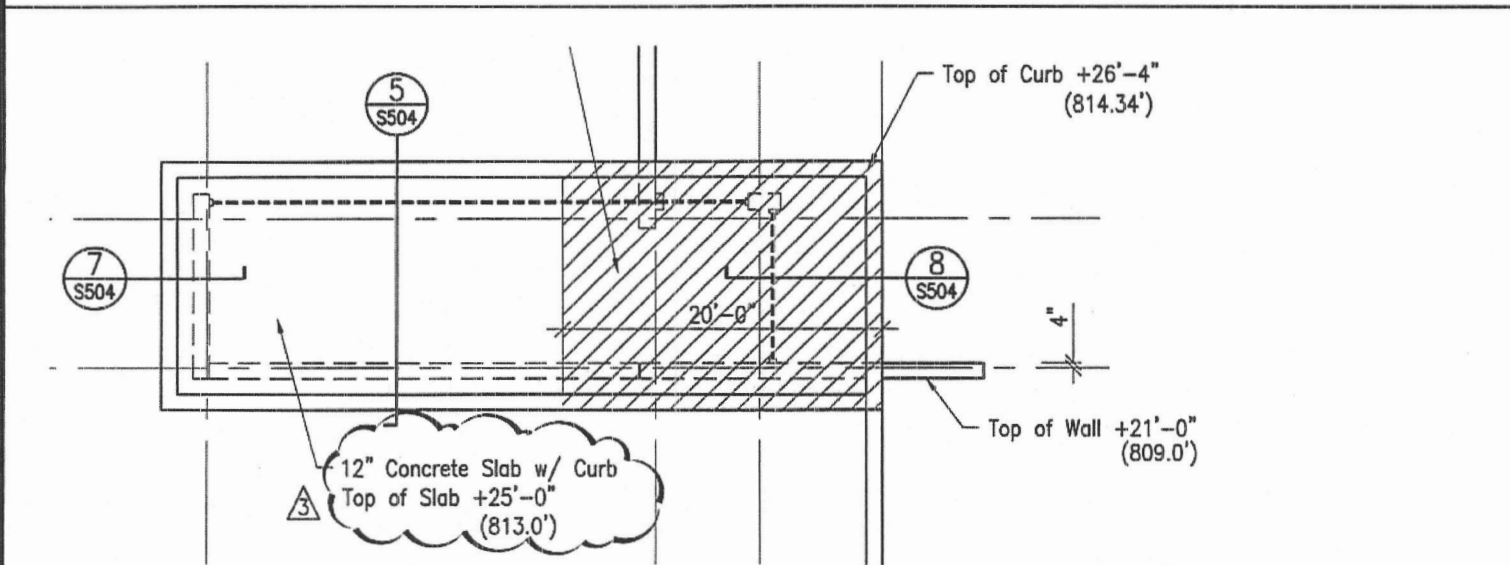
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Sheet 4**

• sheet reference:

A3-4

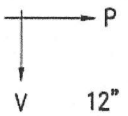


2 High Roof Framing Plan (Detail)
 A3-4 Ref. 1/S202 | 3/32"=1'-0"



1 High Roof Framing Plan (Detail)
 A3-4 Ref. 1/S202 | 3/32"=1'-0"

Design Embed for:
 V = 13k
 P = ±33.6k



12" Precast Spandrel Panel

3'-0"

HC and Topping per Plan

Embedded Plates

2'-11"

1'-2"

1/4

Pipe 4"φ XX Strong

Lt Ga Soffit Framing

5'-8"

HSS8x3x3/8 Frame per Plan

Canopy Fins - See Arch

Slot Pipe to Go Around HSS

1/4

Miter
Corners

1/4

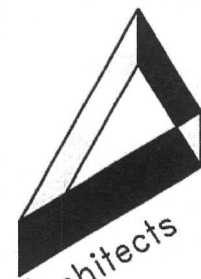
Pipe 4"φ XX Strong
Full Width of Opening

1/4

1
A3-5

Canopy Framing

Ref. 2/S504 | 3/4"=1'-0"



**Architects
Design
Group**

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.
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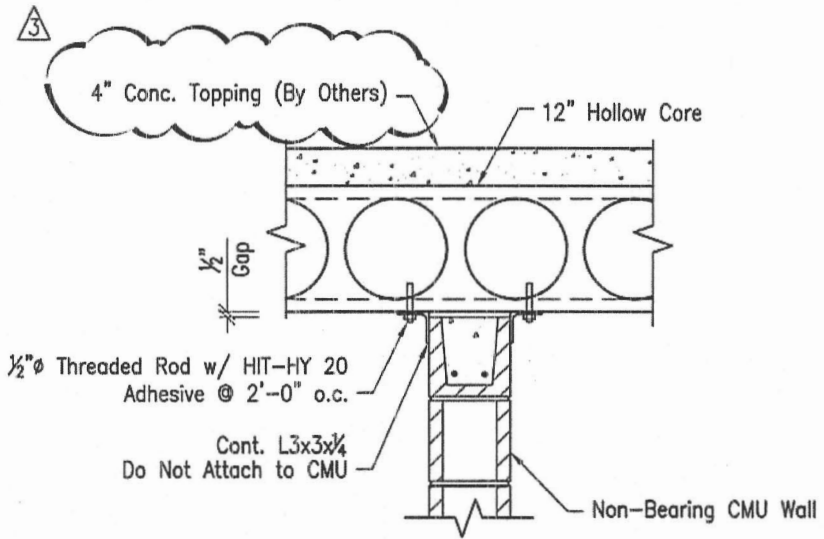
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- approved: TPE
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- project no.
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• sheet title:
Addendum 3
Sheet 5

• sheet reference:

A3-5



1 Non Bearing CMU at Hollow Core
 A3-6 Ref. 3/S504 | 3/4"=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. Knoxville Ave.
 Winter Park, Florida 32789
 P. (407) 647-1706
 Corporate Registration
 Number: 201003461

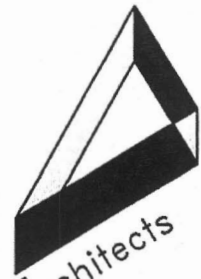
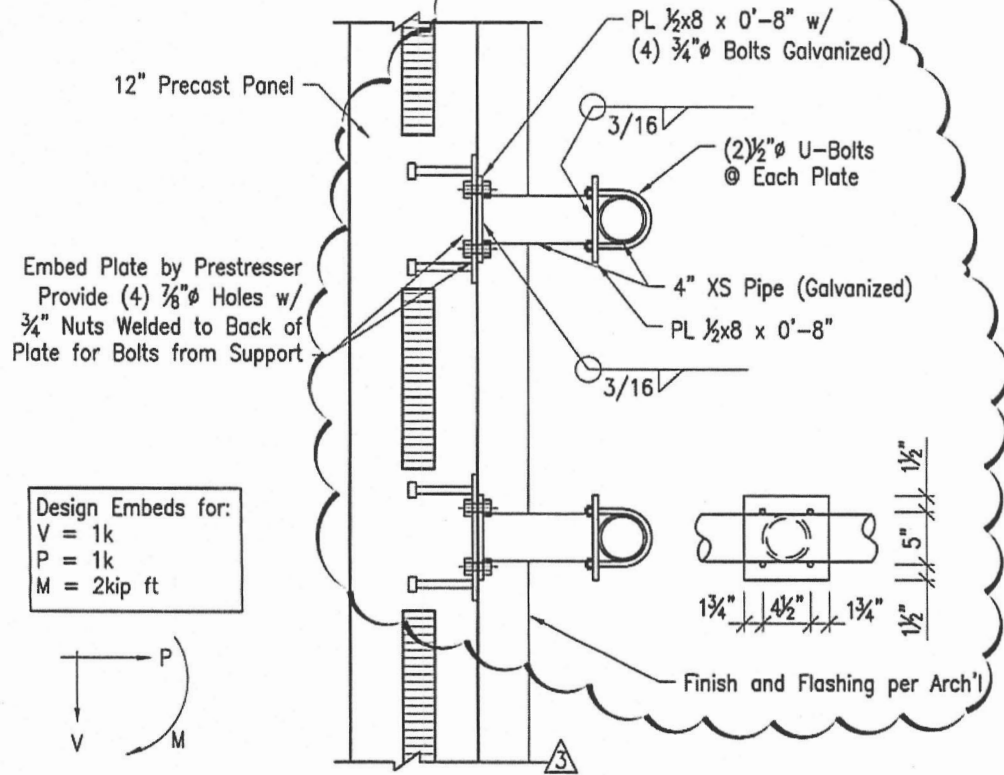
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- project no. 916

• sheet title:
 Addendum 3
 Sheet 6

• sheet reference:
 A3-6



**Architects
Design
Group**

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
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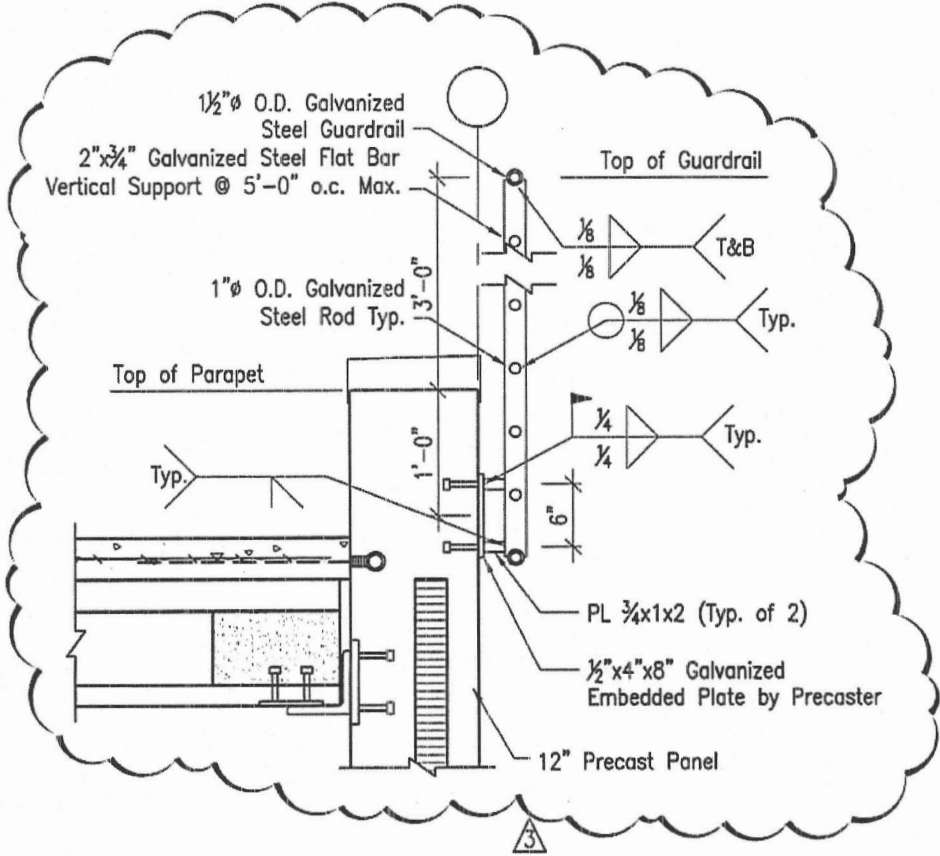
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- approved: TPE
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- project no.
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Addendum 3
Sheet 7

• sheet reference:

A3-7



1 Guardrail Detail
 A3-8 Ref. 12/S504 | 3/4"=1'-0"



Architects and Planners
 I.S.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 32789
 P: (407) 647-1706
 Corporate Registration
 Number: 2010003481

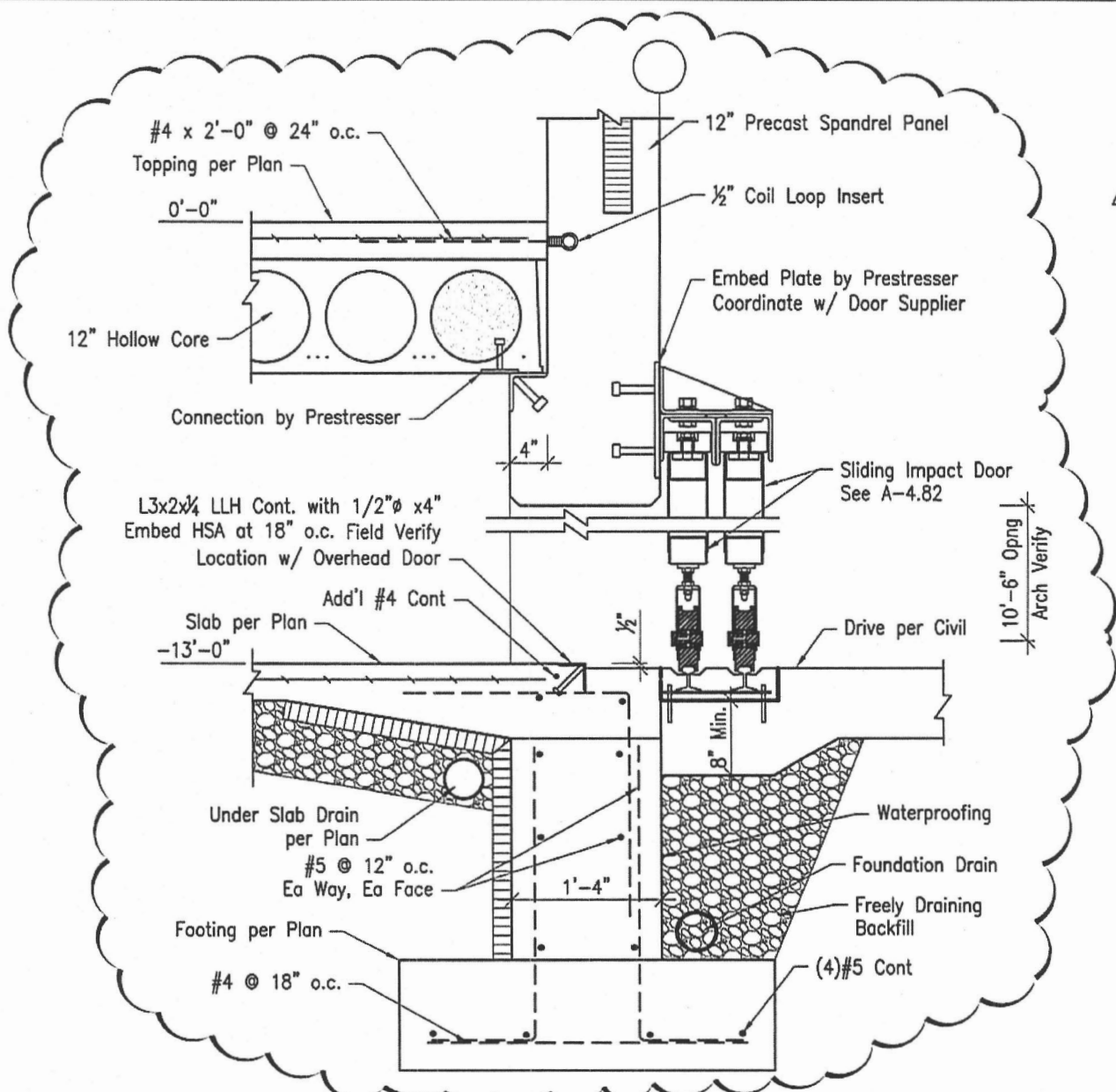
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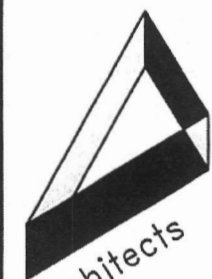
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• sheet title:
 Addendum 3
 Sheet 8

• sheet reference:
 A3-8



3



**Architects
Design
Group**

Architects and Planners
I.S.K. Reeves V, F.A.I.A.
Ian A. Reeves, A.I.A.
Kevin Raigan, A.I.A., LEED-AP
333 N. Knowles Ave.
Winter Park, Florida 32789
P: (407) 647-1700
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Addendum 3
Sheet 9

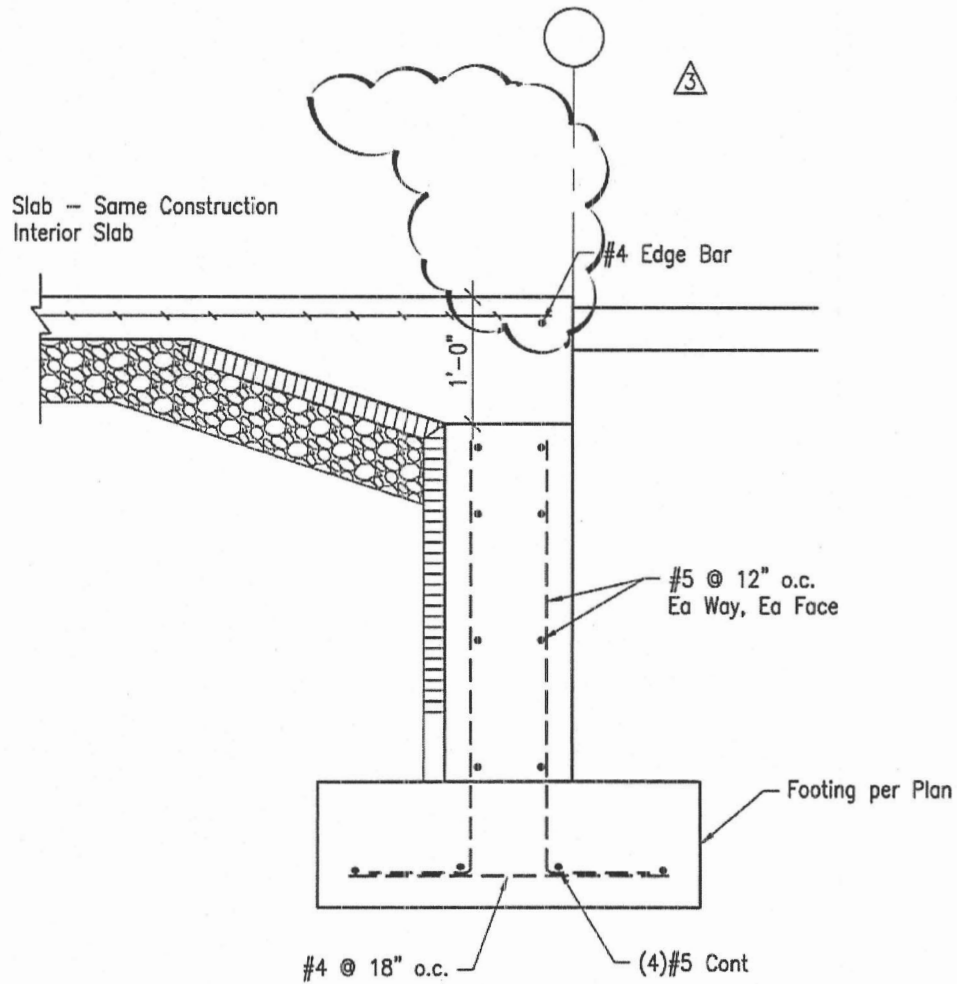
• sheet reference:

A3-9

1
A3-9

Exterior Ground Floor Foundation Hollow Core Bearing - Overhead Door

Ref. 9/S501 3/4"=1'-0"



1 Section at Covered Patio
A3-10

Ref. 11/S501 | 3/4"=1'-0"



Architects and Planners

I.S.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 32789
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Corporate Registration
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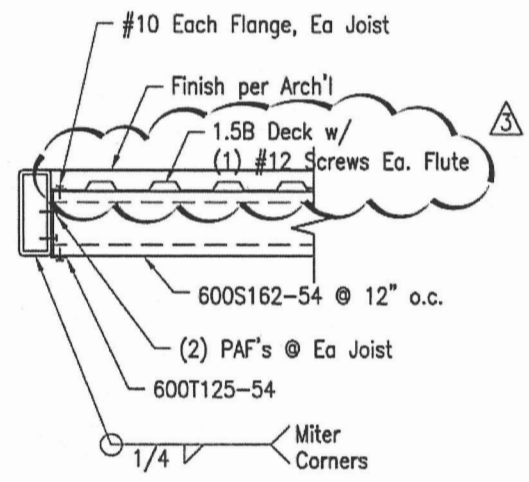
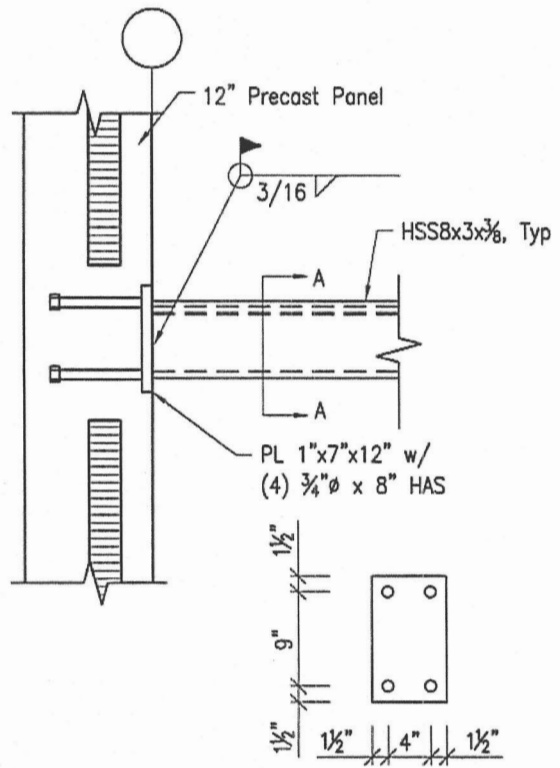
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- project no.
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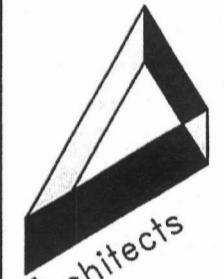
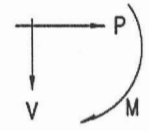
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Addendum 3
Sheet 10

• sheet reference:

A3-10



Design Embed for:
 V = 13k
 M = 26.9Kip ft



**Architects
 Design
 Group**

Architects and Planners
 I.S.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 32789
 P: (407) 647-1706
 Corporate Registration
 Number: 2010003481

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**Addendum 3
 Sheet 11**

• sheet reference:

A3-11

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 = 1.5
Risk Category IV
 $S_s = 0.213g$ $S_1 = 0.095g$
Soil Site Class: D
 $S_{MS} = 0.227$ $S_{M1} = 0.149$
Seismic Design Category D
Basic Seismic Force Resisting System
Ordinary Masonry Shear Walls $C_s = 0.170$ $R = 2$
Ordinary Precast Shear Walls $C_s = 0.114$ $R = 3$
NOTE: Lower R value used for entire structure

Design Base Shear $V = 824$ kips
Analysis Procedure = Equivalent Lateral Force Procedure (ASCE 7-10 Chapter 12.8)

2 Design Criteria (General Notes)
A3-12 Ref. S001



5. At Floor Drains, Locally Slope Floor Towards Drain. See Architectural and Plumbing Drawings for Drain Locations.

1 Foundation Plan (Plan Notes)
A3-12 Ref. 1/S101



Architects and Planners
I.S.K. Reeves V, F.A.I.A.
Jan A. Reeves, A.I.A.
Kevin Raligan, A.I.A., LEED-AP
333 N. Knowles Ave.
Winter Park, Florida 32789
P: (407) 647-1706
Corporate Registration
Number: 2010023481

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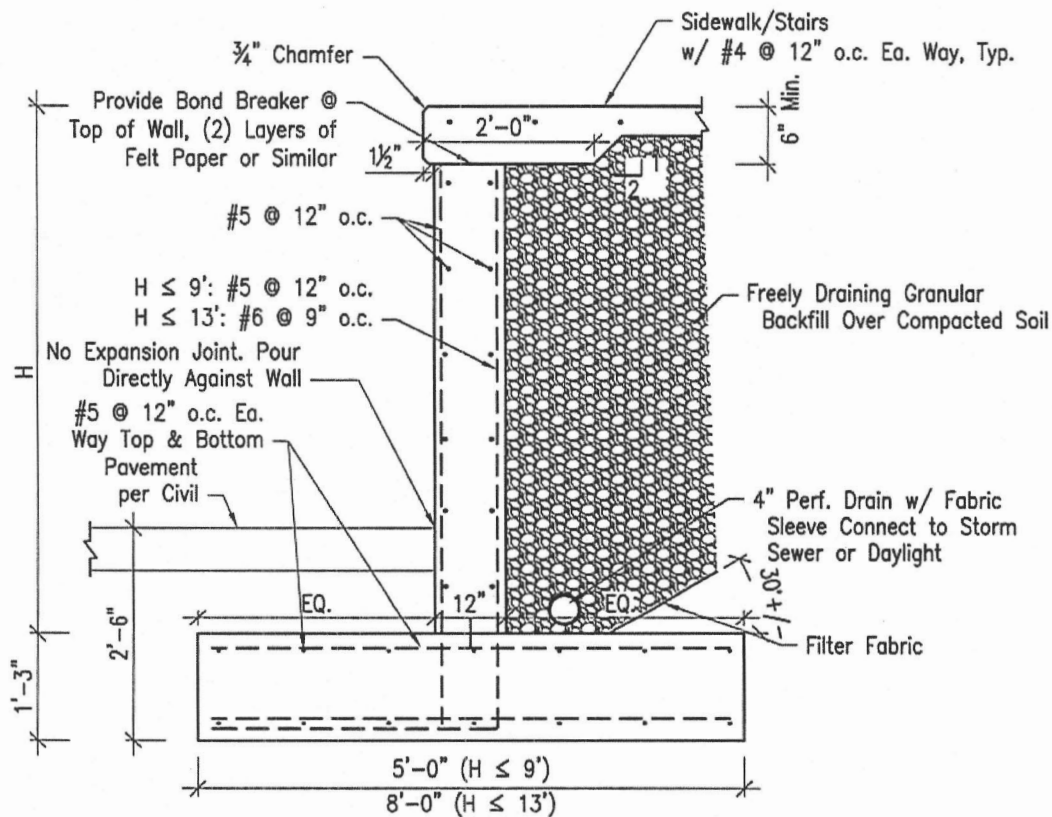
BOONE COUNTY
MISSOURI

- scale: Varies
- drawn: MHS
- checked: TPE
- approved: TPE
- date: 12-9-2014
- project no. 916

• sheet title:
Addendum 3
Sheet 12

• sheet reference:

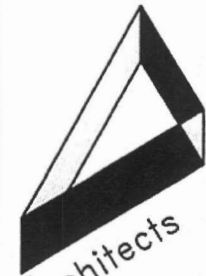
A3-12



1 Site Retaining Wall Detail

A3-13

Ref. 11/S504



Architects
Design
Group

Architects and Planners

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

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

Corporate Registration
Number: 2010003461

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- drawn: MHS
- checked: TPE
- approved: TPE
- date: 12-9-2014
- project no.
916

• sheet title:
Addendum 3
Sheet 13

• sheet reference:

A3-13



Architects and Planners
 L.S. Harris & P.A., A.A.
 1000 North Main Street
 Suite 1000
 Columbia, MO 65201
 Phone: (314) 733-1100
 Fax: (314) 733-1101



THINC
 Consulting Engineers, Inc.
 1000 North Main Street
 Suite 1000
 Columbia, MO 65201
 Phone: (314) 733-1100
 Fax: (314) 733-1101

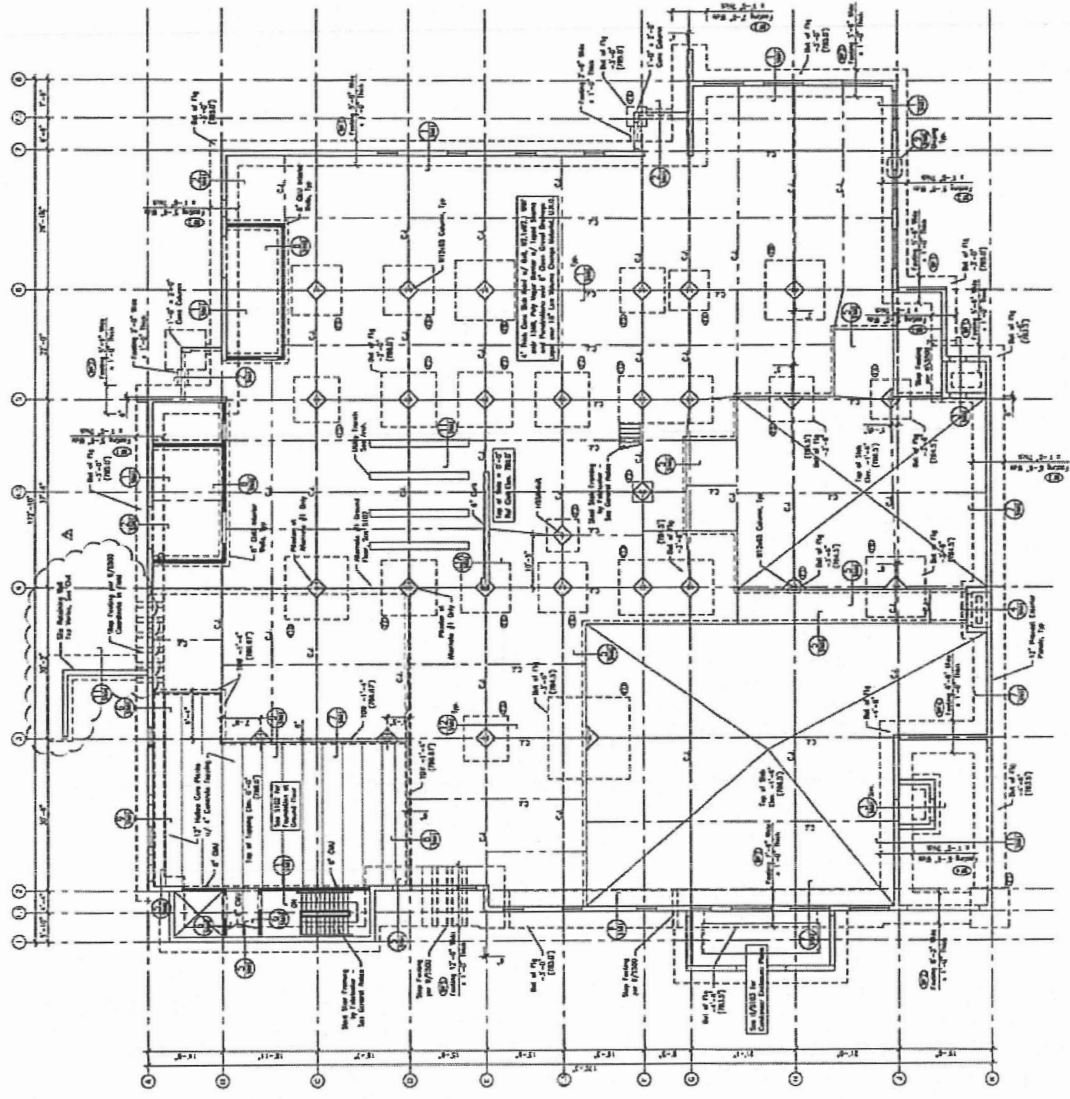
ENGINEER OF RECORD: MDP INC./JRM/MDR
 BOONE COUNTY
 MISSOURI
 EMERGENCY
 COMMUNICATIONS CENTER
 COLUMBIA, MO

100% CONSTRUCTION
 DOCUMENTS: BID SET

Architect hereby represents and warrants that the information contained herein is true and correct to the best of his knowledge and belief. The contractor shall be responsible for verifying all dimensions and quantities shown on these drawings. The contractor shall be responsible for obtaining all necessary permits and approvals. The contractor shall be responsible for coordinating all construction activities with the architect and other project participants.

Sheet Title
 Addendum 3
 Sheet 14

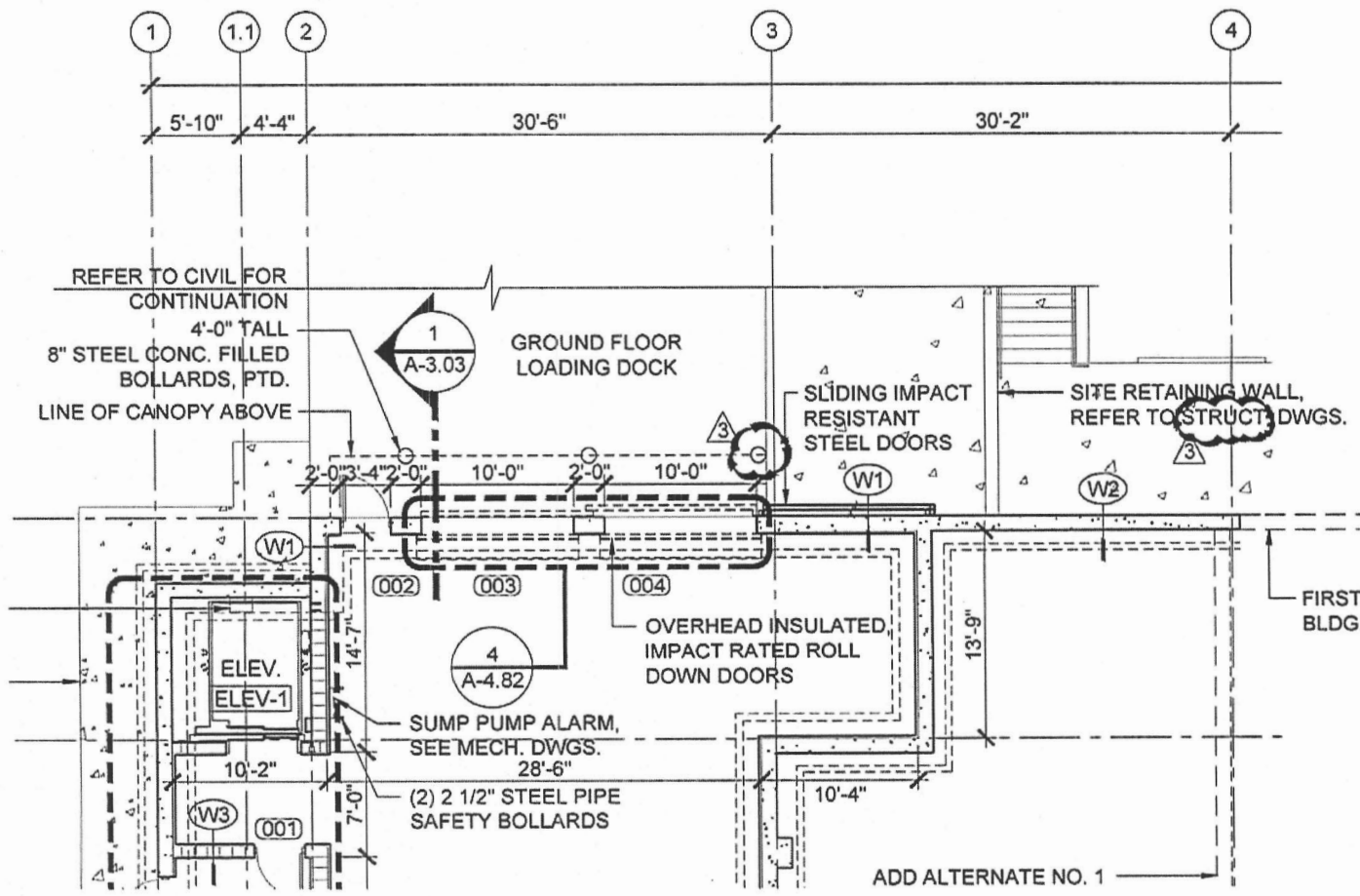
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 Project No: 916.13
 Sheet: A3-14



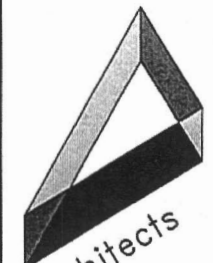
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|--------|--|----------|----------|
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| 3 | 12" Dia. Cast in Place Concrete Wall | Concrete | 100 |
| 4 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
| 5 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
| 6 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
| 7 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
| 8 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
| 9 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
| 10 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
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| 16 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
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| 18 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
| 19 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
| 20 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
| 21 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
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| 23 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
| 24 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
| 25 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
| 26 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
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| 28 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
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| 89 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
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| 99 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |
| 100 | 12" Dia. Cast in Place Concrete Slab | Concrete | 100 |

- Notes:
1. Column and Slab dimensions shall be as shown on this drawing.
 2. Use rebar chairs per ASCE 8-02, Section 12.4.2.2.
 3. Concrete shall be placed in accordance with the drawings.
 4. Coordinate, Verify, Note and Record All Field Measurements.
 5. Show All Field Measurements on the Drawings as Noted.

Foundation Plan



1 GROUND FLOOR PLAN
SCALE: 3/32" = 1'-0"



**Architects
Design
Group**

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

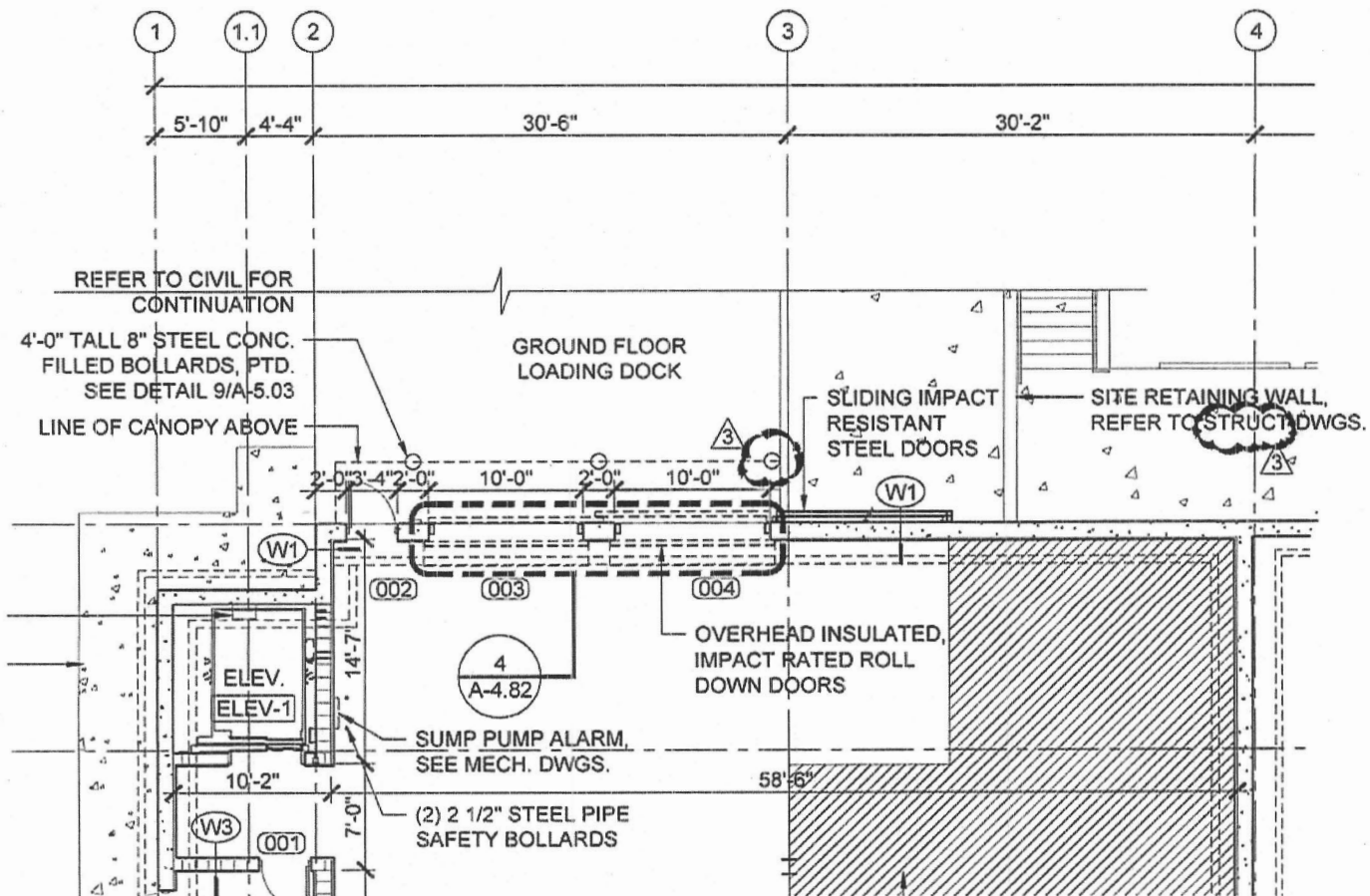
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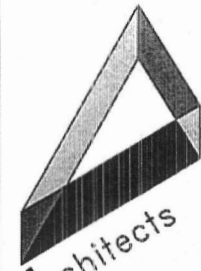
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- approved: SRF
- date: 12.08.2014
- project no.
916

• sheet title:
**GROUND FLOOR
PLAN**

• sheet reference:
A-1.01
SK A-1.01.1



2 ALTERNATE NO. 1 - STORAGE (GROUND FLOOR)
SCALE: 3/32" = 1'-0"



**Architects
Design
Group**

Architects and Planners
I.S.K. Reeves V, F.A.I.A.
Ian A. Reeves, A.I.A.
Kevin Raigun, A.I.A., LEED-AP
333 N. Knowles Ave.
Winter Park, Florida 32789
P: (407) 647-1700
Corporate Registration
Number: 2010003481

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- approved: SRF
- date: 12.08.2014
- project no. 916

• sheet title:
**GROUND FLOOR
PLAN**

• sheet reference:
A-1.01
SK A-1.01.2

WALL TYPES LEGEND REFER TO SHEET A-1.11 FOR DETAILED WALL TYPE CONSTRUCTION

| TAG | SYMBOL | BASIC DESCRIPTION |
|------|--------|--|
| (P1) | | 6" METAL STUD PARTITION W/ SOUND ATTENUATION, SECTIONS UP TO DECK |
| (P2) | | 6" METAL STUD 1 HR. F.R. PARTITION W/ SOUND ATTENUATION AND SECTIONS UP TO DECK |
| (P3) | | 3-5/8" METAL STUD PARTITION, SECTIONS UP TO DECK |
| (P4) | | 6" METAL STUD PARTITION W/ BALLISTIC PANEL, SECTIONS UP TO DECK |
| (P5) | | 3-5/8" METAL STUD PARTITION W/ GYPSUM WALL BOARD 6" ABOVE CEILING |
| (P6) | | 3-5/8" METAL STUD PARTITION W/ GYPSUM WALL BOARD 6" ABOVE CEILING ON ONE SIDE, UP TO DECK ON OTHER |
| (P7) | | 3-5/8" METAL STUD PARTITION W/ MOISTURE RESISTANT WALLBOARD, SECTIONS UP TO DECK |
| (P8) | | METAL STUD PARTITION W/ MOISTURE RESISTANT WALLBOARD ON CONCRETE CURB, SECTIONS UP TO DECK |
| (P9) | | 6" METAL STUD 2 HR. F.R. PARTITION W/ SOUND ATTENUATION AND SECTIONS UP TO DECK |
| (W1) | | INSULATED PRECAST CONCRETE WALL PANEL, TERMINATE FINISHES 6" ABOVE CEILING ON INTERIOR SIDE |
| (W2) | | REINFORCED MASONRY WALL, TERMINATE FINISHES 6" ABOVE CEILING ON INTERIOR SIDE |
| (W3) | | FIRE RATED MASONRY WALL, TERMINATE FINISHES 6" ABOVE CEILING ON INTERIOR SIDE |

WINDOW TYPES LEGEND REFER TO SHEET A-6.51 FOR DETAILED WINDOW INFORMATION

| TAG | SYMBOL | BASIC DESCRIPTION |
|-------|--------|---|
| (W1) | | LARGE MISSILE IMPACT STOREFRONT WALL SYSTEM (15 LB 2x4 @ 100 MPH) |
| (SF1) | | INTERIOR GLAZING SYSTEM |
| (L1) | | LARGE MISSILE IMPACT CONTINUOUS HORIZONTAL LOUVER (15 LB 2x4 @ 100 MPH) |



**Architects
Design
Group**

Architects and Planners
I.S.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 32789
P: (407) 647-1706

Corporate Registration
Number: 2010003481

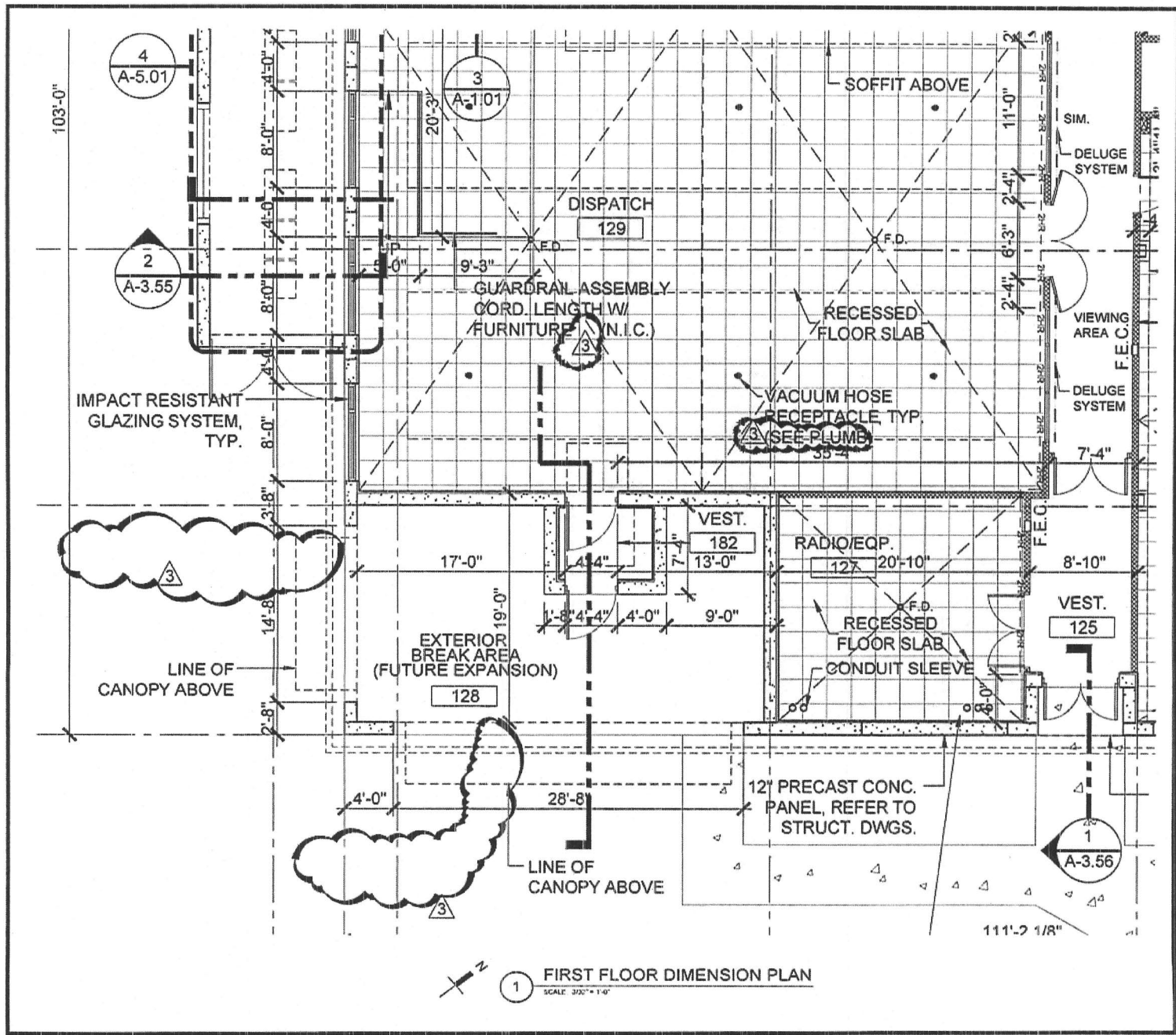
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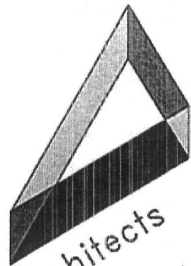
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- project no. 916

• sheet title:
**GROUND FLOOR
PLAN**

• sheet reference:
A-1.01
SK A-1.01.3



1 FIRST FLOOR DIMENSION PLAN
SCALE: 3/32" = 1'-0"



**Architects
Design
Group**

Architects and Planners
I.S.K. Reeves V, F.A.I.A.
Ian A. Reeves, A.I.A.
Kevin Rutigan, A.I.A., LEED-AP
333 N. Knowles Ave.
Winter Park, Florida 32789
P: (407) 647-1706
Corporate Registration
Number: 2019003481

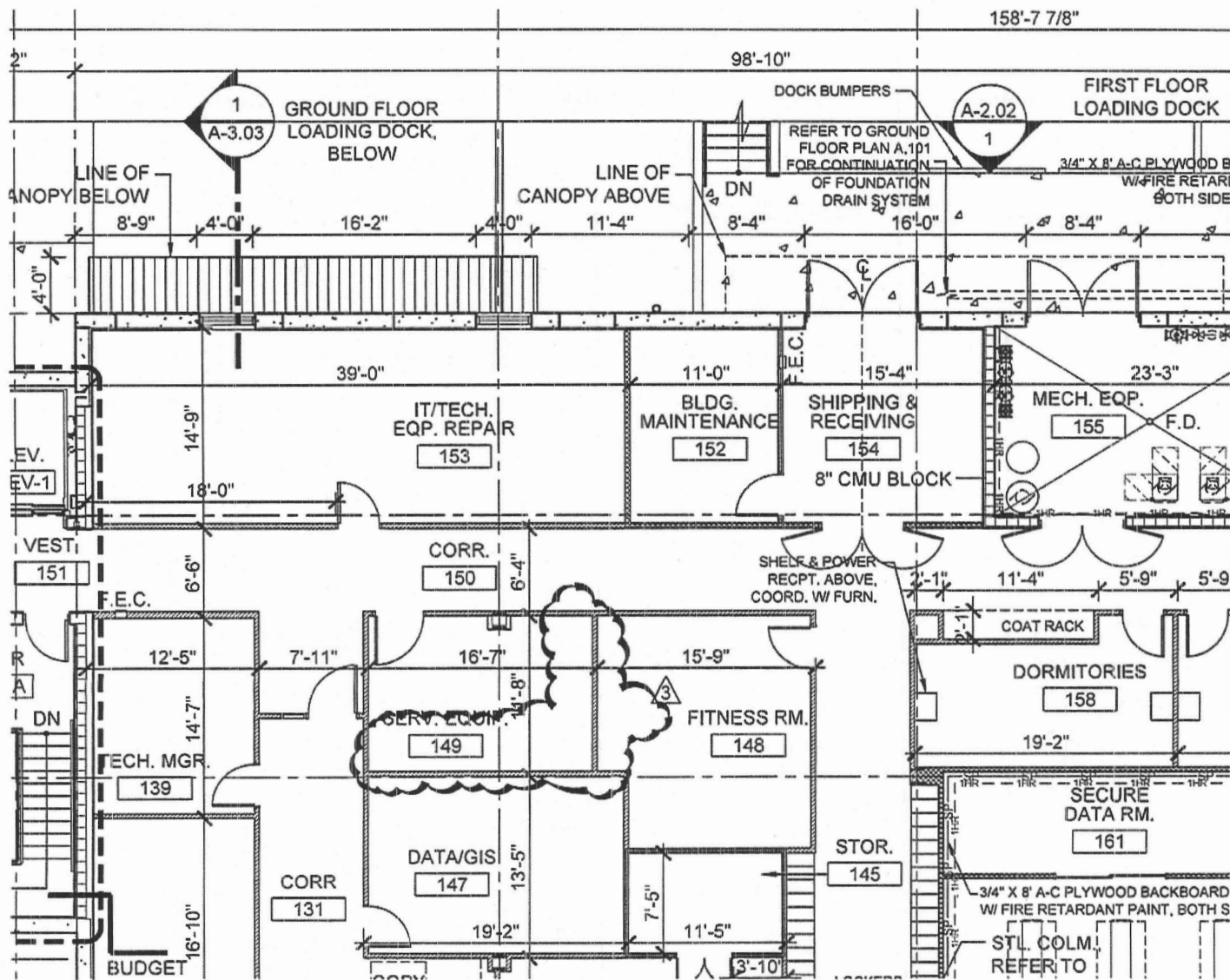
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- approved: SRF
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- project no. 916

• sheet title:
**FIRST & MEZZ
FLOOR DIM PLAN**

• sheet reference:
A-1.02
SK A-1.02.1



1 FIRST FLOOR DIMENSION PLAN
SCALE 3/32" = 1'-0"



Architects and Planners
 L.S.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 32789
 P: (407) 647-1706
 Corporate Registration
 Number: 2010003481

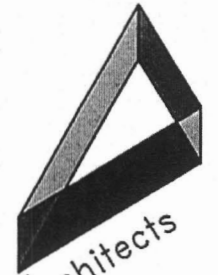
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- project no. 916

• shoot title:
**FIRST & MEZZ
 FLOOR DIM PLAN**

• shoot reference:
 A-1.02
 SK A-1.02.3



Architects
Design
Group

Architects and Planners

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

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

Corporate Registration
Number: 2010003481

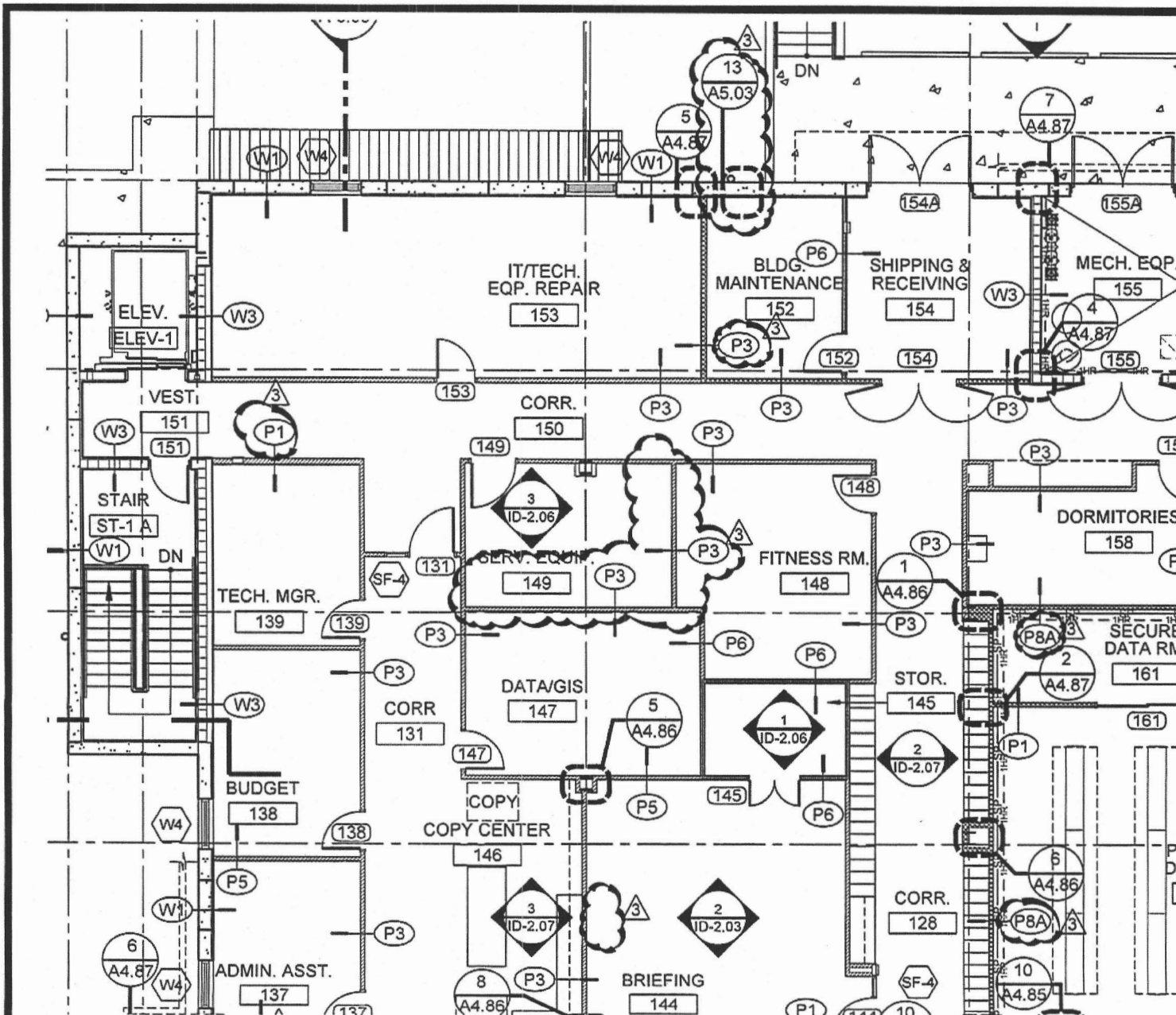
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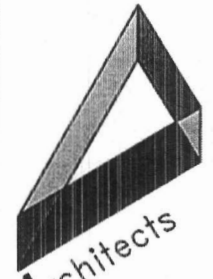
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- project no. 916

• shoot title:
FIRST FLOOR
REFERENCE PLAN

• sheet reference:
A-1.03
SK A-1.03.1



1 FIRST FLOOR REFERENCE PLAN
SCALE: 3/32" = 1'-0"



**Architects
Design
Group**

Architects and Planners
L.S.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 32789
P: (407) 647-1700

Corporate Registration
Number: 201003401

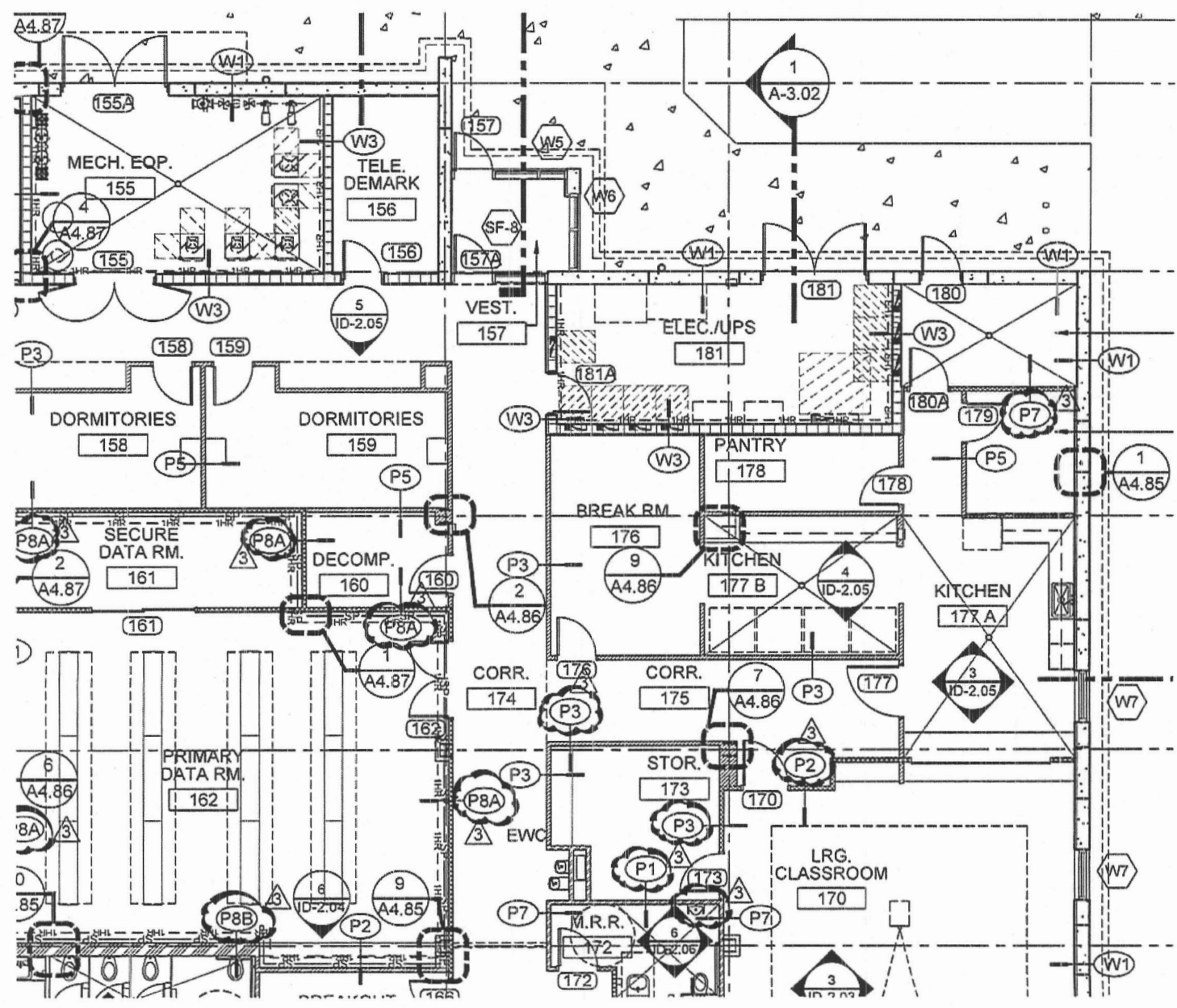
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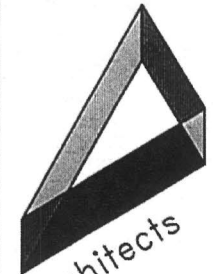
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**FIRST FLOOR
REFERENCE PLAN**

• sheet reference:
A-1.03
SK A-1.03.2



1 FIRST FLOOR REFERENCE PLAN
SCALE: 3/32" = 1'-0"



**Architects
Design
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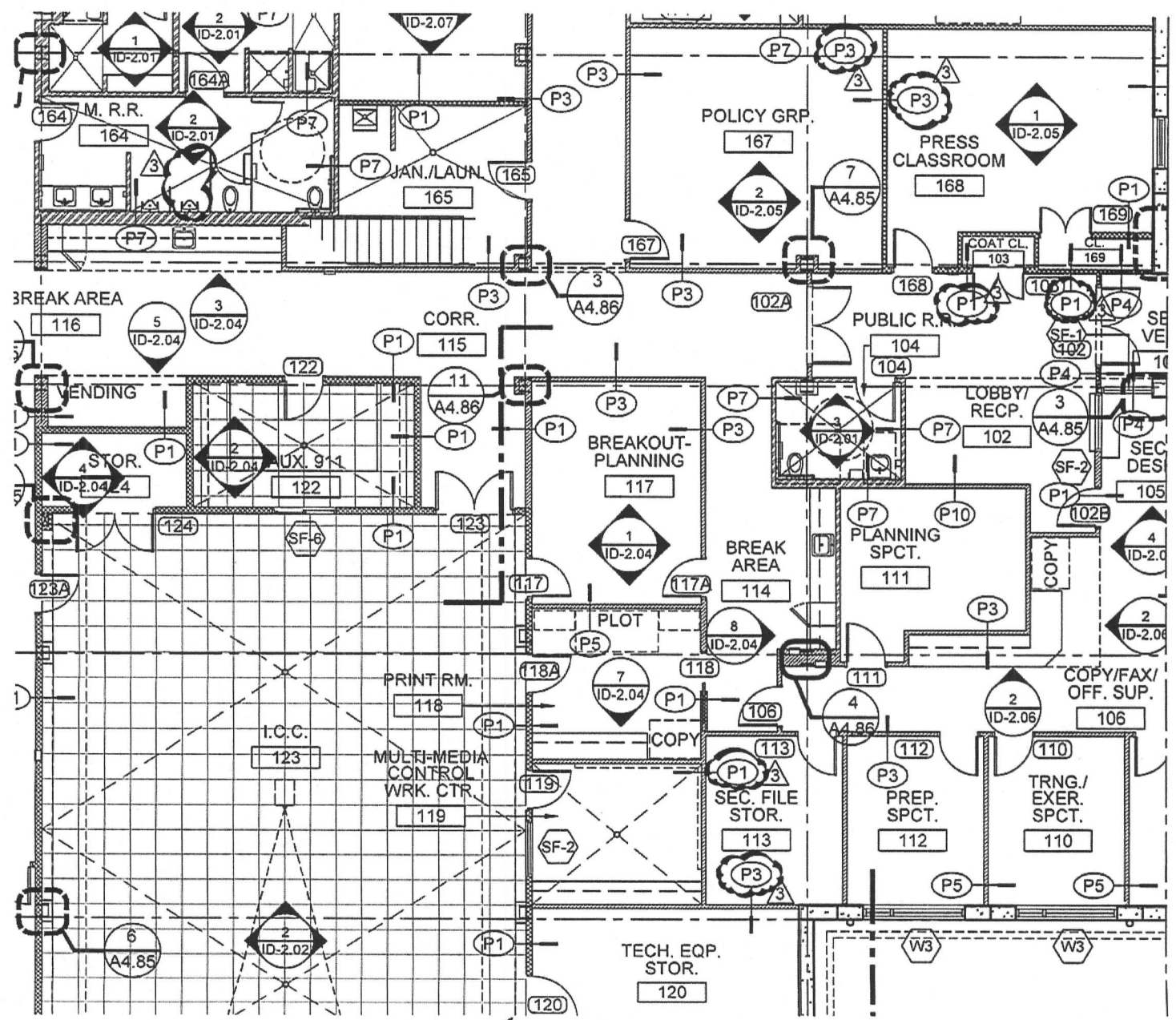
Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A., LEED-AP
 Kevin Ratigan, A.I.A., LEED-AP
 333 N. Knowles Ave.
 Winter Park, Florida 32789
 P: (407) 947-1706
 Corporate Registration
 Number: 2010003491

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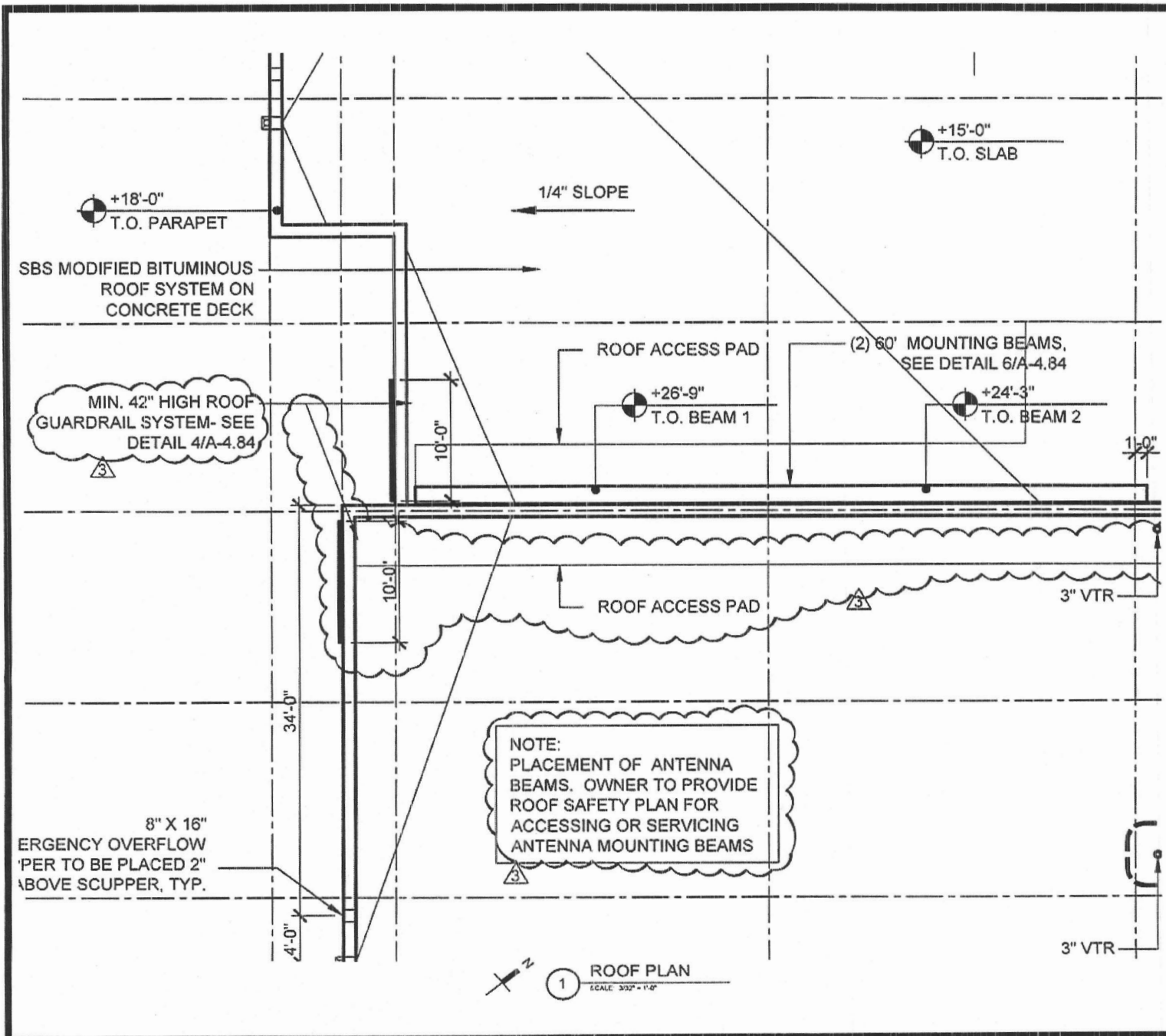
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MISSOURI**

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- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no. 916

- sheet title:
**FIRST FLOOR
REFERENCE PLAN**
- sheet reference:
A-1.03
SK A-1.03.3



1 FIRST FLOOR REFERENCE PLAN
 SCALE: 3/32" = 1'-0"



Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Rutigan, A.I.A., LEED-AP
 333 N. Knowles Ave.
 Winter Park, Florida 32789
 P: (407) 647-1706
 Corporate Registration
 Number: 3010003461

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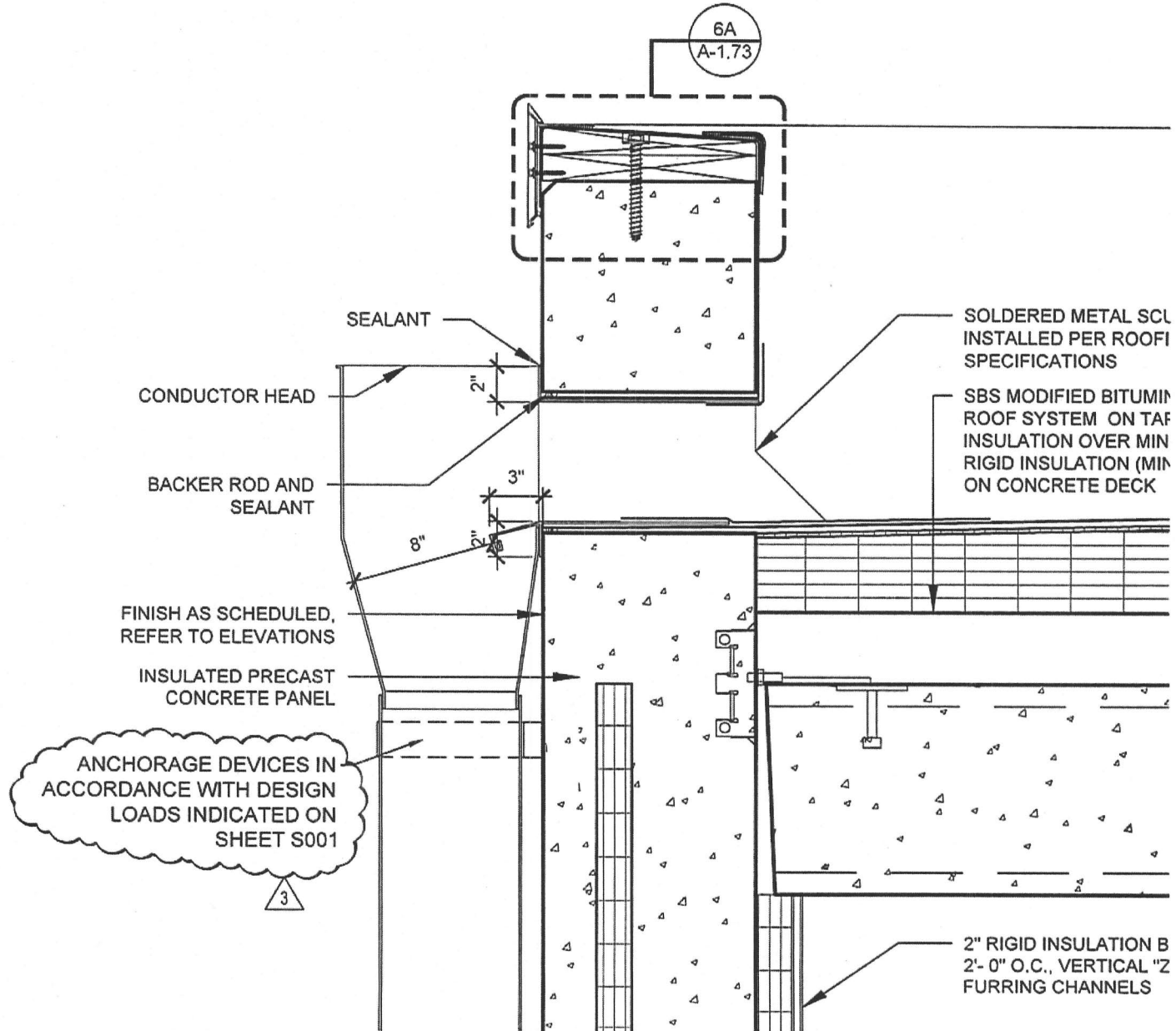
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- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no. 916

• sheet title:
ROOF PLAN PLAN

• sheet reference:
 A-1.71
 SK A-1.71.1

1 **ROOF PLAN**
 SCALE: 3/32" = 1'-0"



2 SCUPPER AND DOWNSPOUT
SCALE: 1/2" = 1'-0"



Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Ratgan, A.I.A., LEED-AP
 333 N. Knowles Ave.
 Winter Park, Florida 32789
 P: (407) 647-1706
 Corporate Registration
 Number: 2010003481

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- approved: SRF
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- project no. 916

• sheet title:
ROOF DETAILS

• sheet reference:
A-1.72
SK A-1.72.1



Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Rasigan, A.I.A., LEED-AP
 333 N. Knowles Ave.
 Winter Park, Florida 32789
 P: (407) 647-1700
 Corporate Registration
 Number: 2010003401

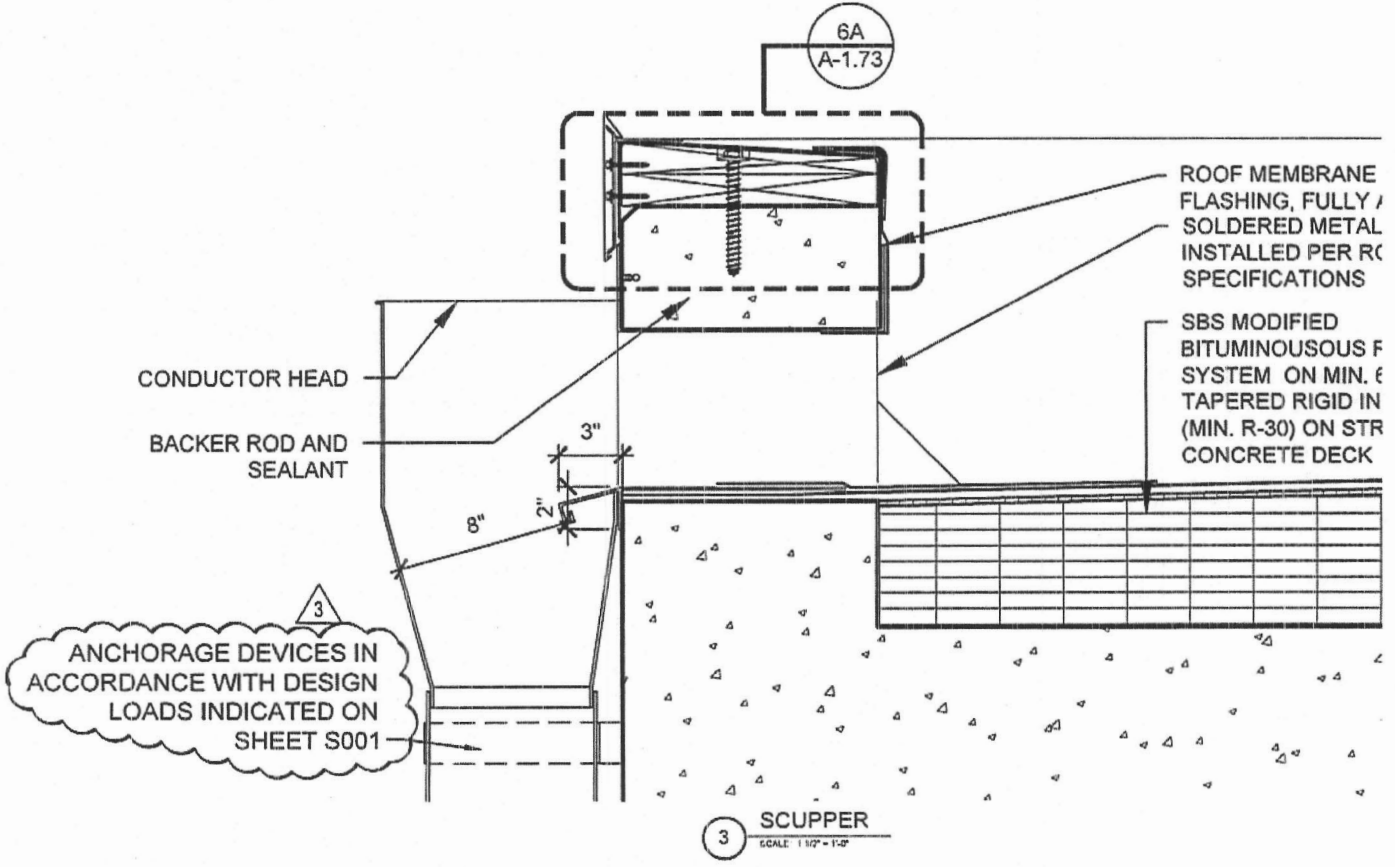
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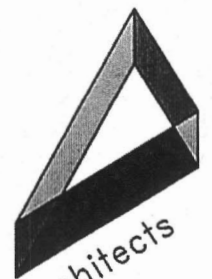
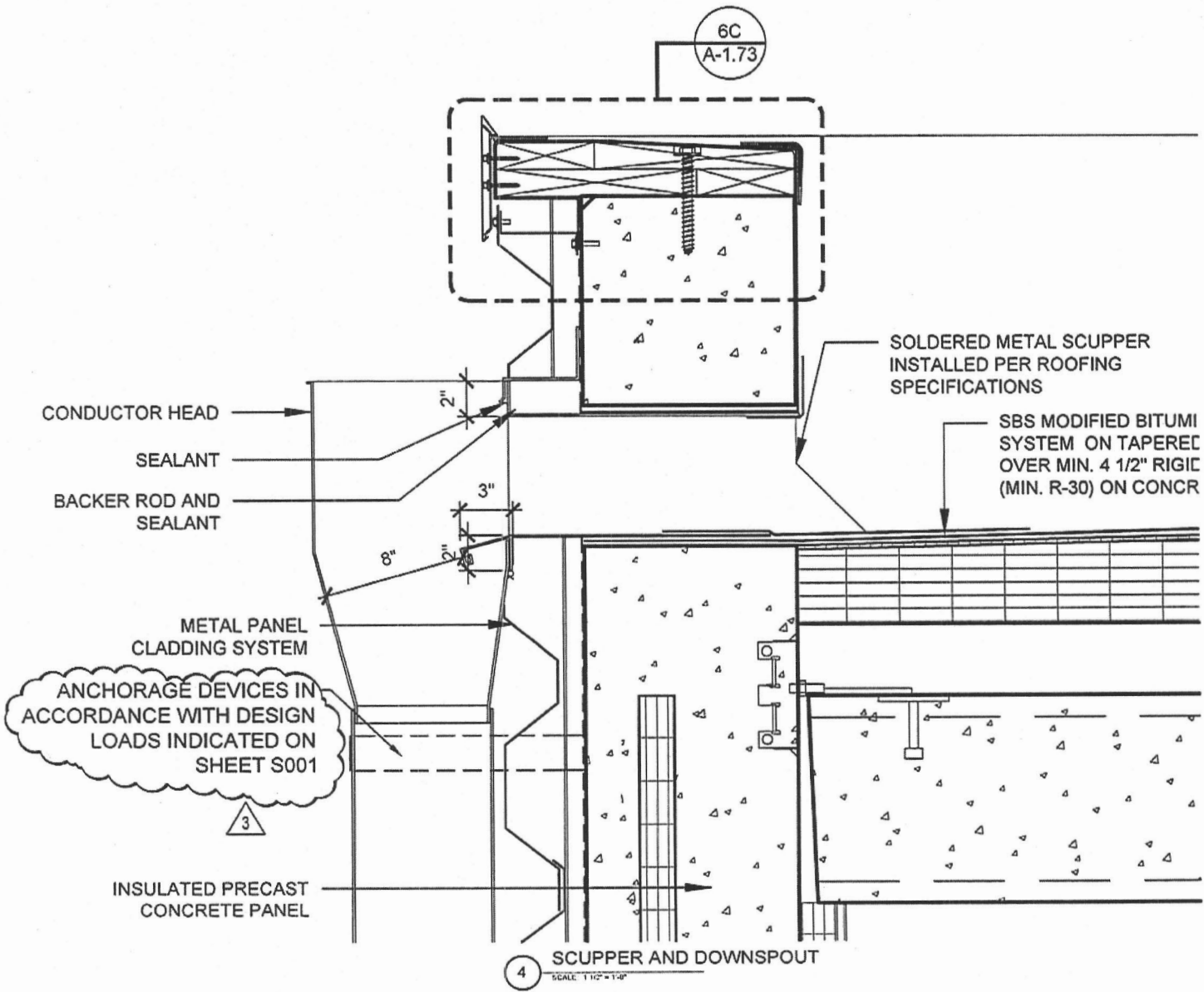
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- date: 12.08.2014
- project no. 916

• shoot title:
**ROOF
 DETAILS**

• sheet reference:
 A-1.73
 SK A-1.73.1





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Group**

Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Raigan, A.I.A., LEED-AP
 333 N. Knowles Ave.,
 Winter Park, Florida 32789
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 Number: 2010003481

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- approved: SRF
- date: 12.08.2014
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• sheet title:
**ROOF
DETAILS**

• sheet reference:
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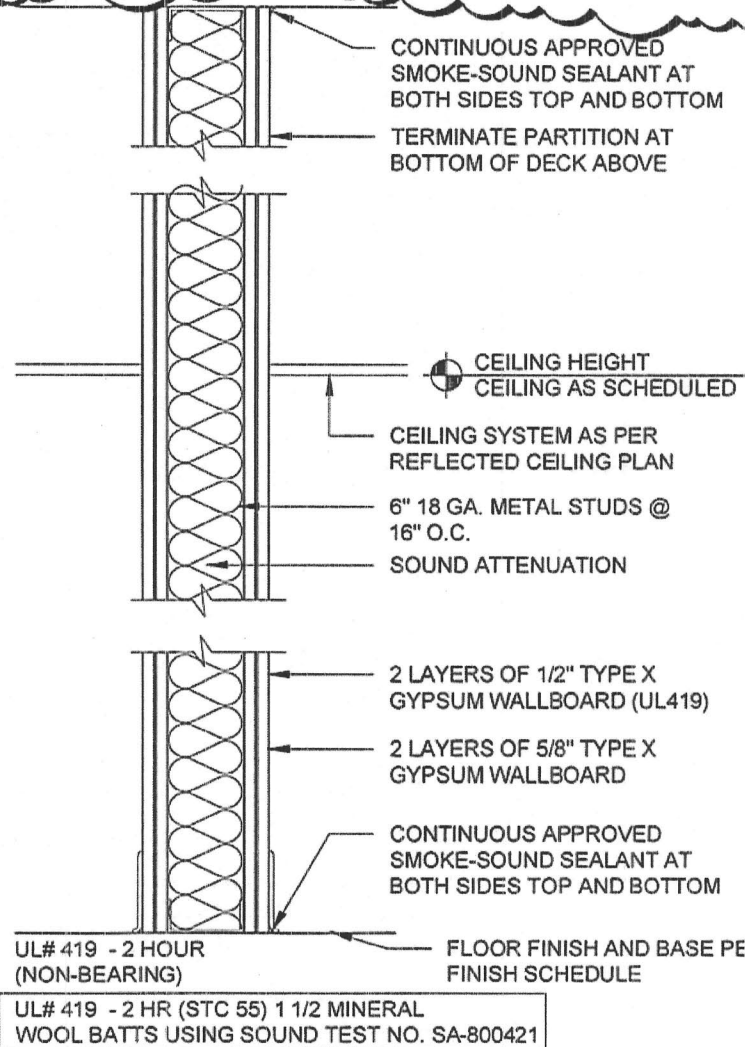
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STC 50

PLUMBING PARTITION - 1 HOUR FIRE RATED - SMOKE PARTITION
@ PRIMARY DATA RM 162, SECOND DATE RM 161



3



PARTITION TYPE: P9

STC 50

2 HOUR FIRE RATED

3



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

333 N. Knowles Ave.
 Winter Park, Florida 32780
 P: (407) 647-1736

Corporate Registration
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- project no. 916

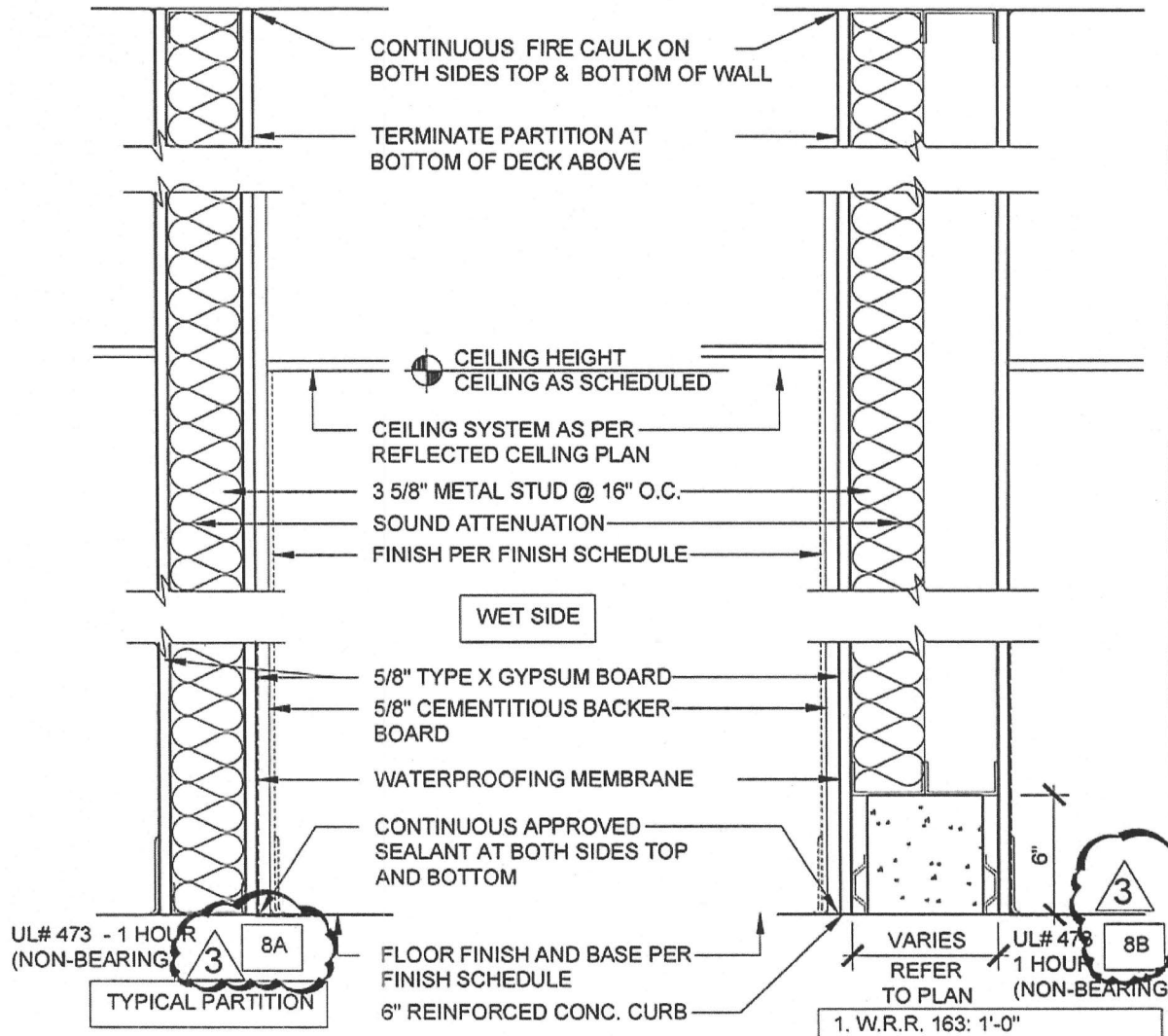
WALL TYPES

sheet reference
A-1.11
SK A-1.11.1

PARTITION TYPE: P4

STC 50

BALLISTIC RATED



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 Ian A. Reeves, A.I.A.
 Kevin Rutigan, A.I.A., LEED-AP

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

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 Number: 2010003401

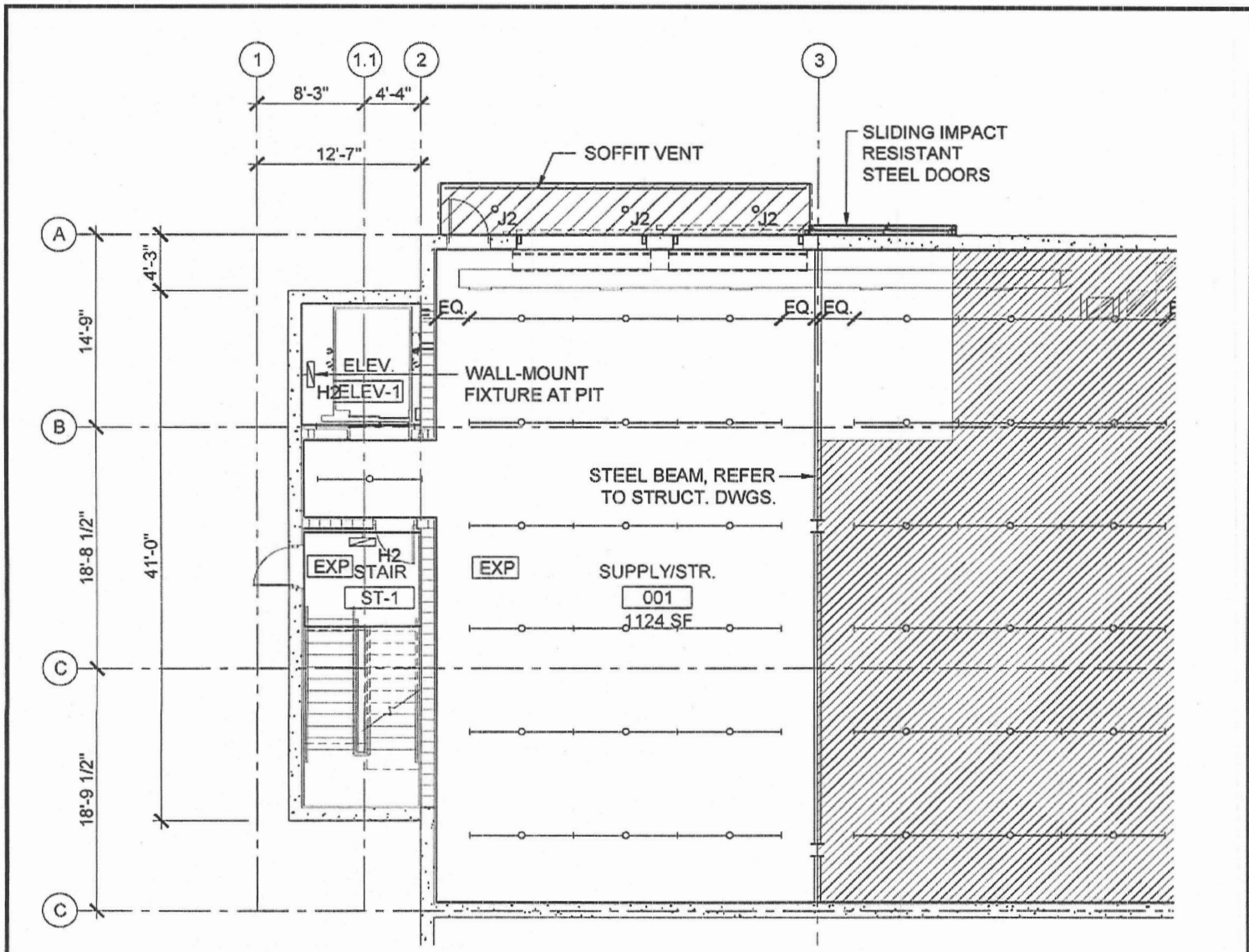
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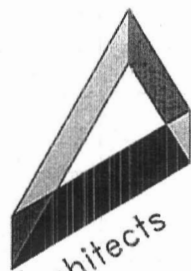
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- approved: SRF
- date: 12.08.2014
- project no. 916

• sheet title: **WALL TYPES**

• sheet reference: A-1.11
 SK A-1.11.2




ALTERNATE NO. 1 - STORAGE
 SCALE: 3/32" = 1'-0"



**Architects
 Design
 Group**

Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Raigan, A.I.A., LEED-AP
 333 N. Knowles Ave.
 Winter Park, Florida 32780
 P: (407) 647-1700
 Corporate Registration
 Number: 201003481

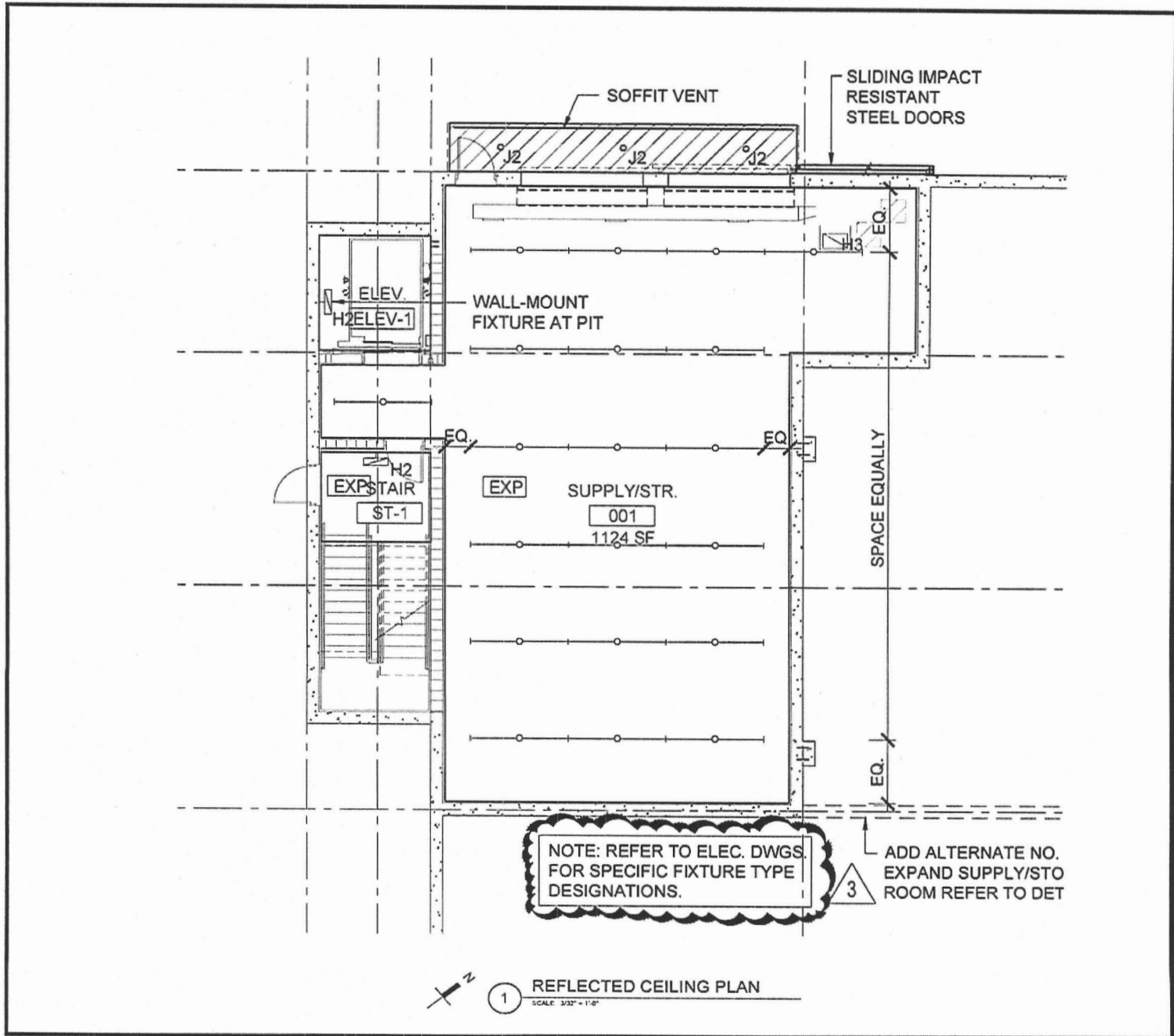
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- scale: AS NOTED
- drawn: LG
- checked: SRF
- approved: SRF
- date: 12.08.2014
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• sheet title:
**GROUND FLOOR
 RCP**

• sheet reference:
 A-1.51
 SK A-1.51.1



**Architects
Design
Group**

Architects and Planners

L.S.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 32789
P: (407) 647-1706

Corporate Registration
Number: 2010003481

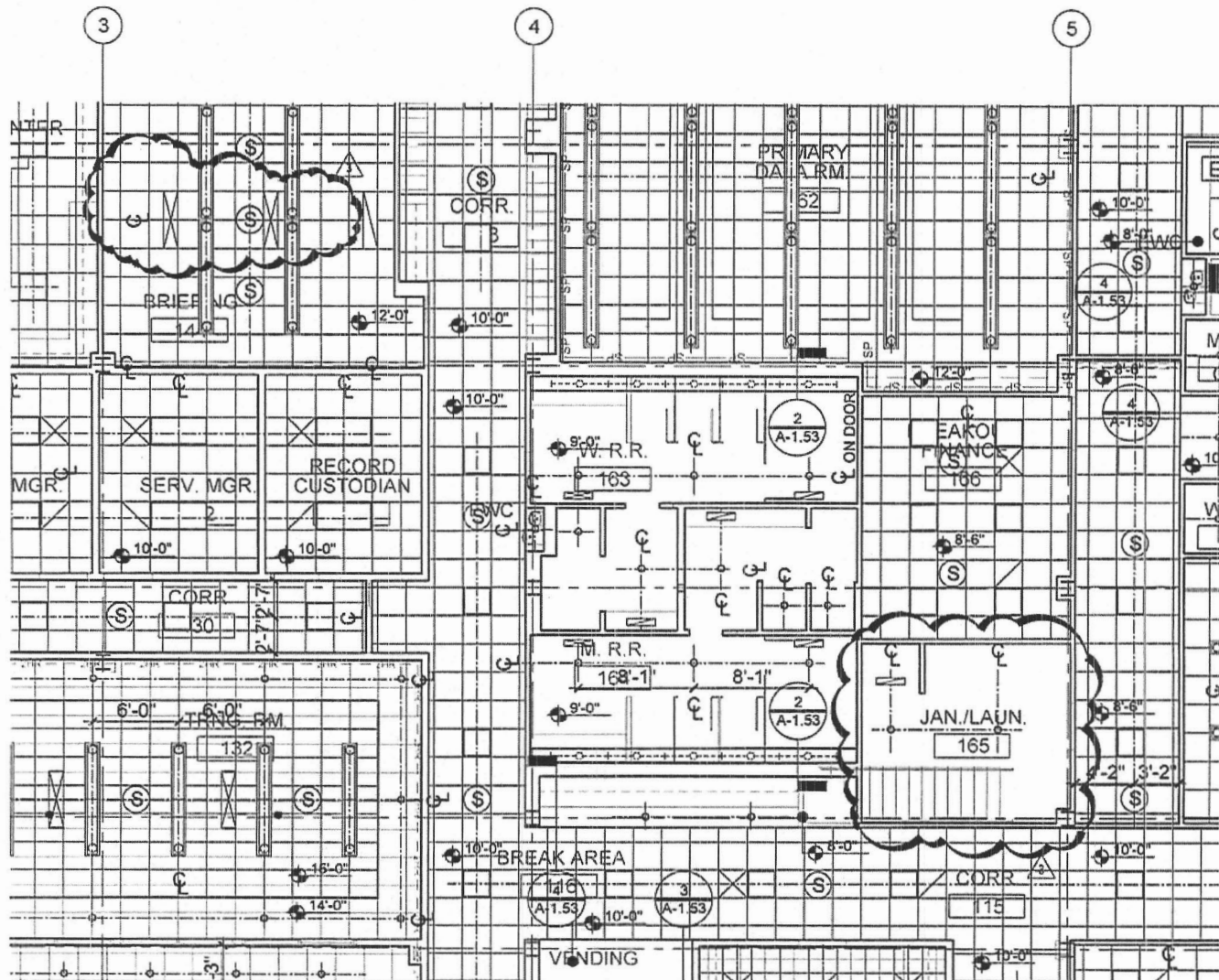
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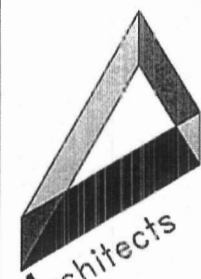
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- date: 12.08.2014
- project no. 916

• sheet title:
**GROUND FLOOR
RCP**

• sheet reference:
A-1.51
SK A-1.51.2



1 FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 3/32" = 1'-0"



Architects
Design
Group

Architects and Planners
L.S.K. Reeves V, F.A.I.A.
Ian A. Reeves, A.A.
Kevin Raligan, A.A., LEED-AP
333 N. Knodes Ave.
Winter Park, Florida 32789
P: (407) 647-1706
Corporate Registration
Number: 3019003461

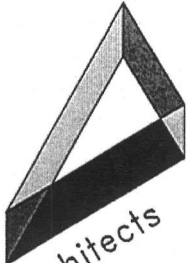
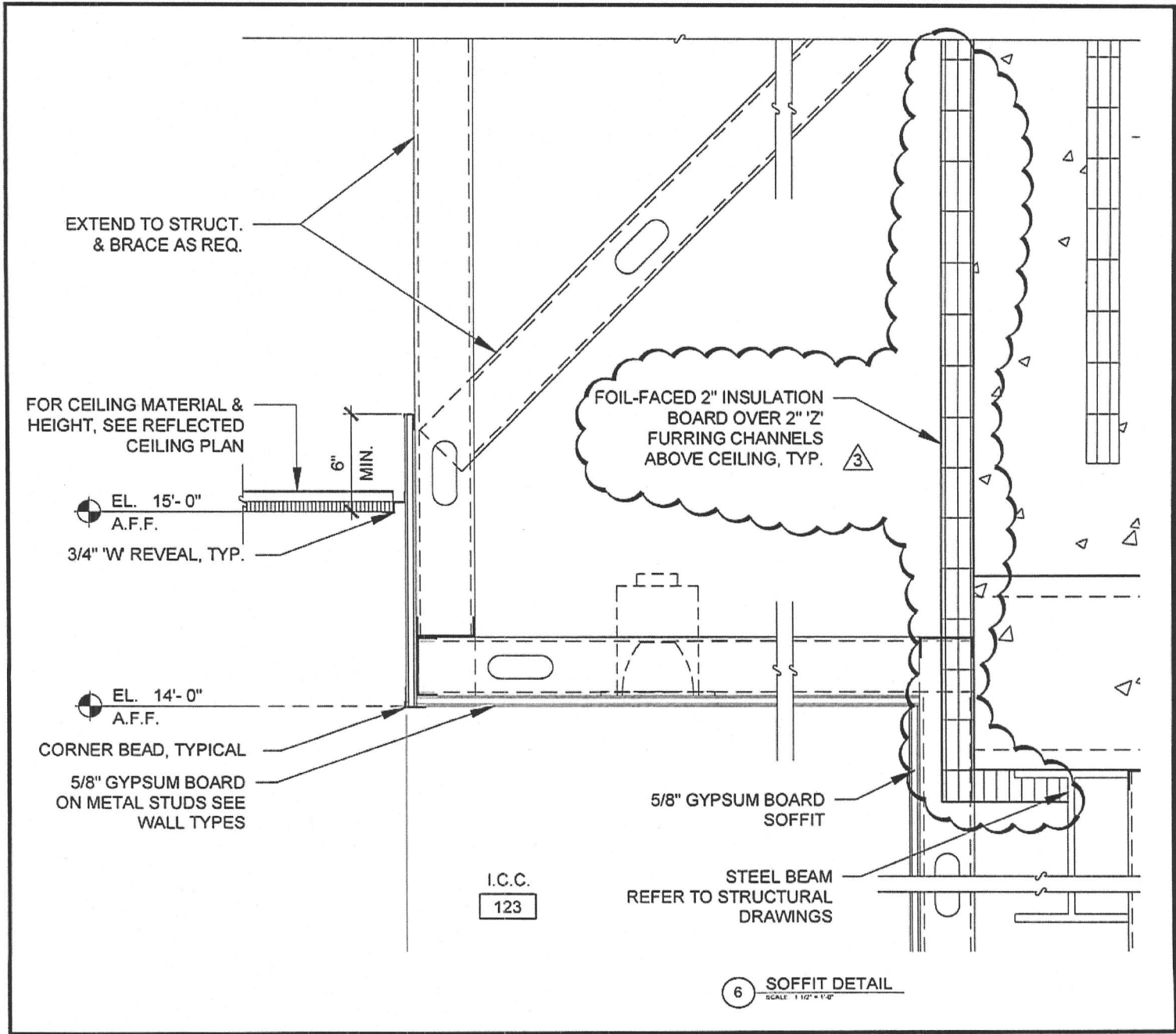
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- scale: AS NOTED
- drawn: L.S.
- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no. 916

• sheet title:
FIRST FLOOR
RCP

• sheet reference:
A-1.51
SK A-1.52.1



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Group**

Architects and Planners
 I.S.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 32789
 P: (407) 647-1706
 Corporate Registration
 Number: 2010003401

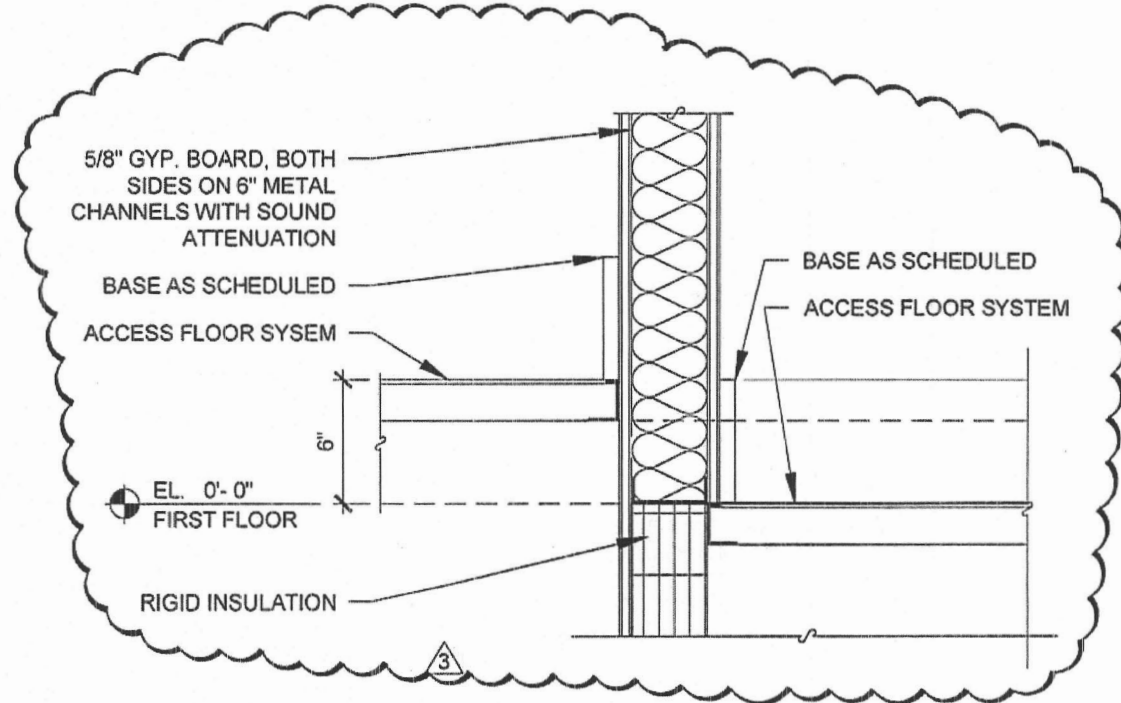
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• sheet title:
**RCP
DETAILS**

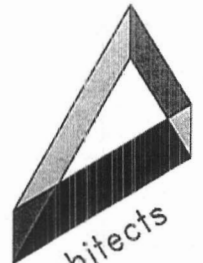
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SK A-1.53.1



9

KNOCK-OUT PANEL SILL

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



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Architects and Planners
 I.S.K. Reeves V, F.A.J.A.
 Ian A. Reeves, A.I.A.
 Kevin Rutigan, A.I.A., LEED-AP
 333 N. Knowles Ave.
 Winter Park, Florida 32789
 P: (407) 647-1706
 Corporate Registration
 Number: 2010003481

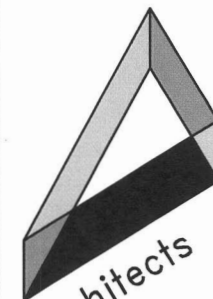
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- date: 12.08.2014
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• sheet title:
**RCP
DETAILS**

• sheet reference:
A-1.53
SK A-1.53.2



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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

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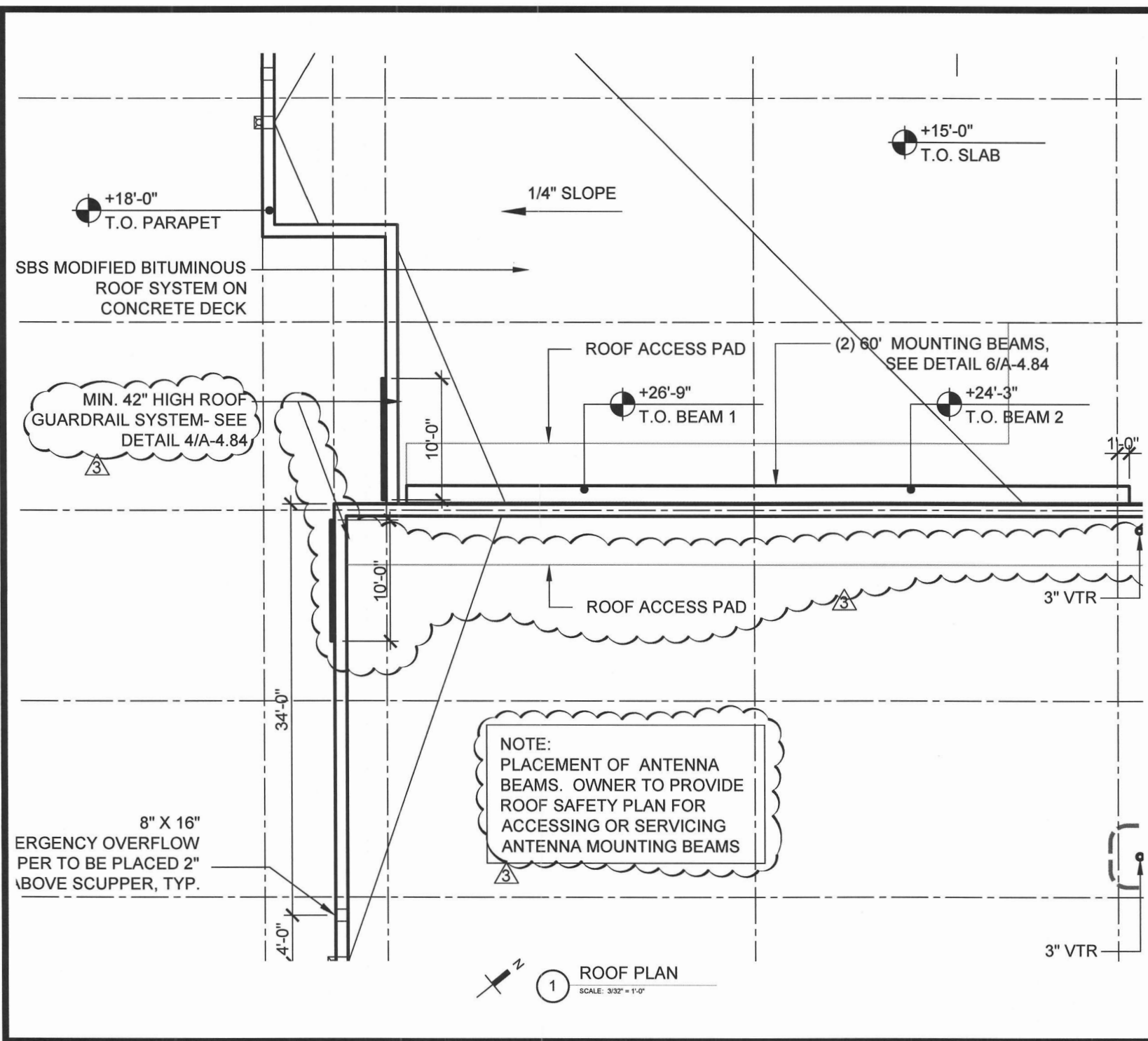
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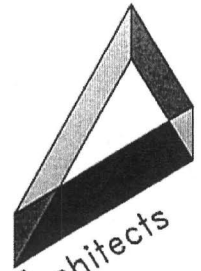
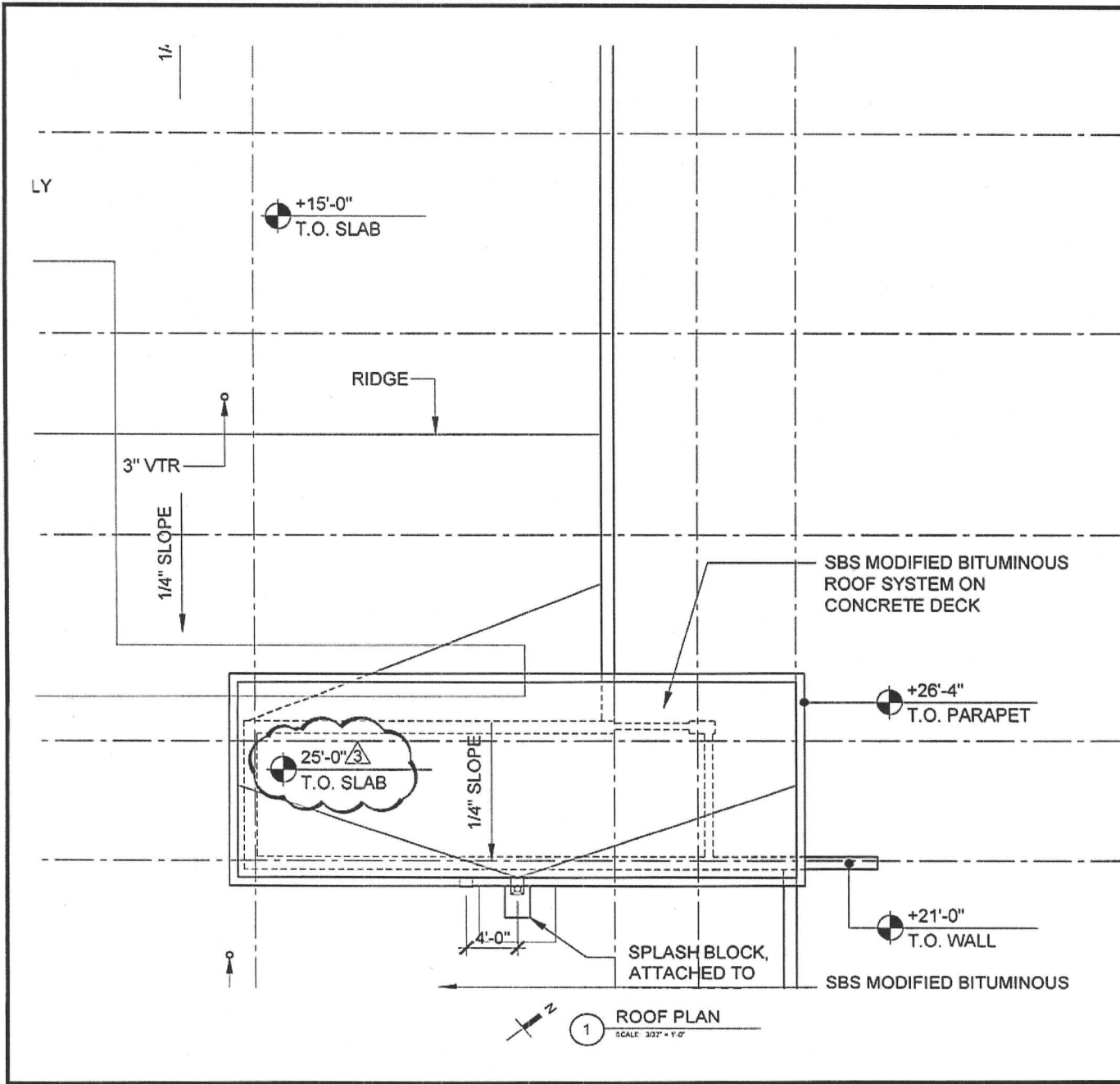
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- approved: SRF
- date: 12.08.2014
- project no. 916

• sheet title:
ROOF PLAN
PLAN

• sheet reference:
A-1.71
SK A-1.71.1



1 ROOF PLAN
SCALE: 3/32" = 1'-0"



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Design
Group**

Architects and Planners
 I.S.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 32780
 P: (407) 647-1706
 Corporate Registration
 Number: 2010003481

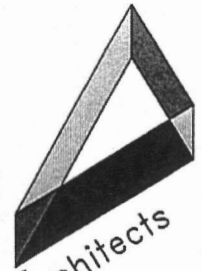
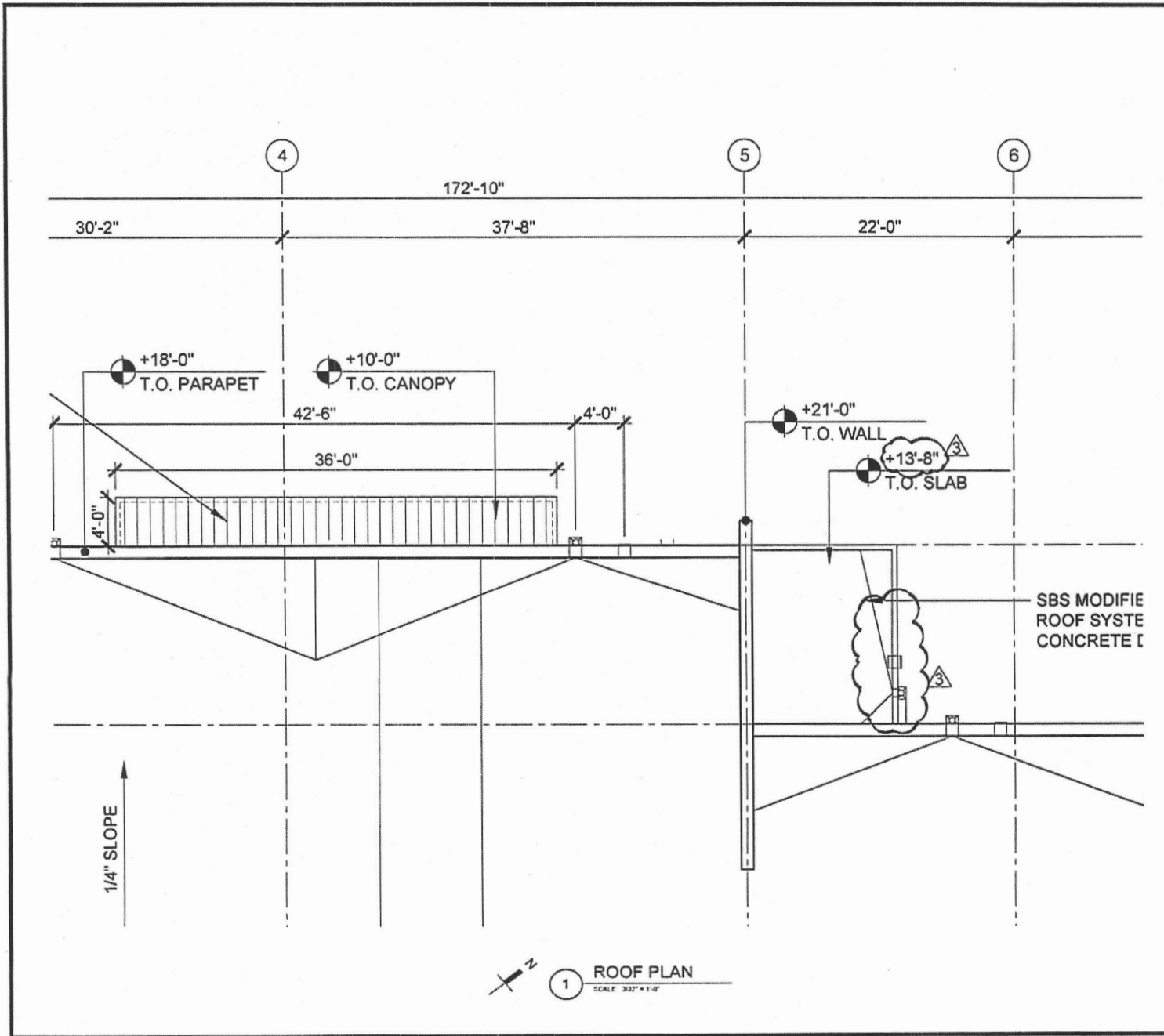
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- checked: SRF
- approved: SRF
- date: 12.08.2014
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• sheet title:
**ROOF PLAN
PLAN**

• sheet reference:
A-1.71
SK A-1.71.2



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Design
Group**

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 L.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Ratigan, A.I.A., LEED-AP
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• sheet title:
**ROOF PLAN
PLAN**

• sheet reference:
A-1.71
SK A-1.71.3



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 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
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 333 N. Knowles Ave.
 Winter Park, Florida 32789
 P: (407) 647-1706
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 Number: 2010003481

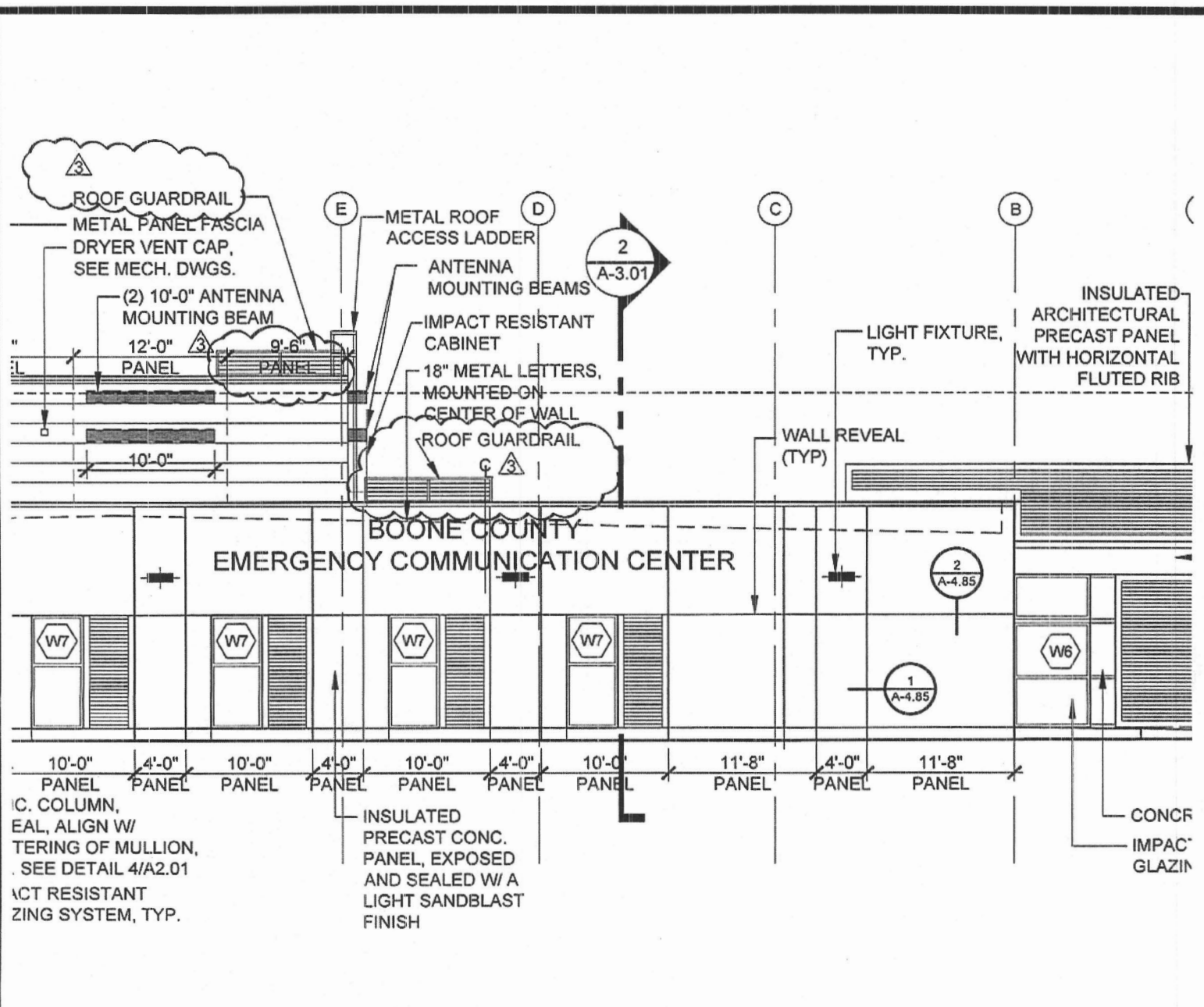
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- drawn: LG
- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no. 916

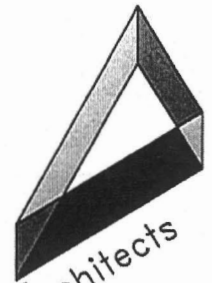
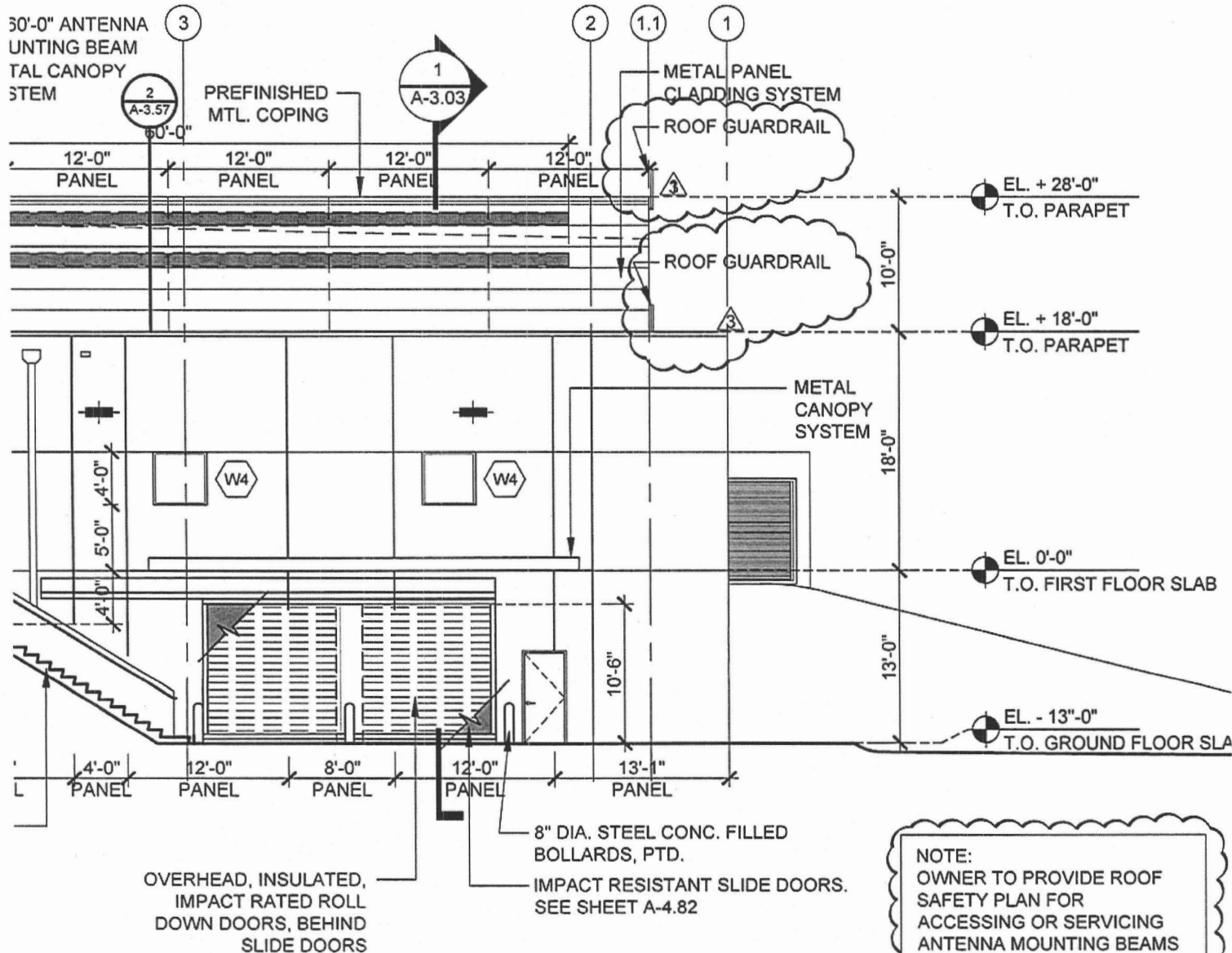
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ELEVATIONS PLAN

• sheet reference:
 A-2.01
 SK A-2.01.1



2 **NORTHEAST ELEVATION**
 SCALE 3/32" = 1'-0"

30'-0" ANTENNA
UNTING BEAM
TAL CANOPY
STEM



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

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Number: 2010003401

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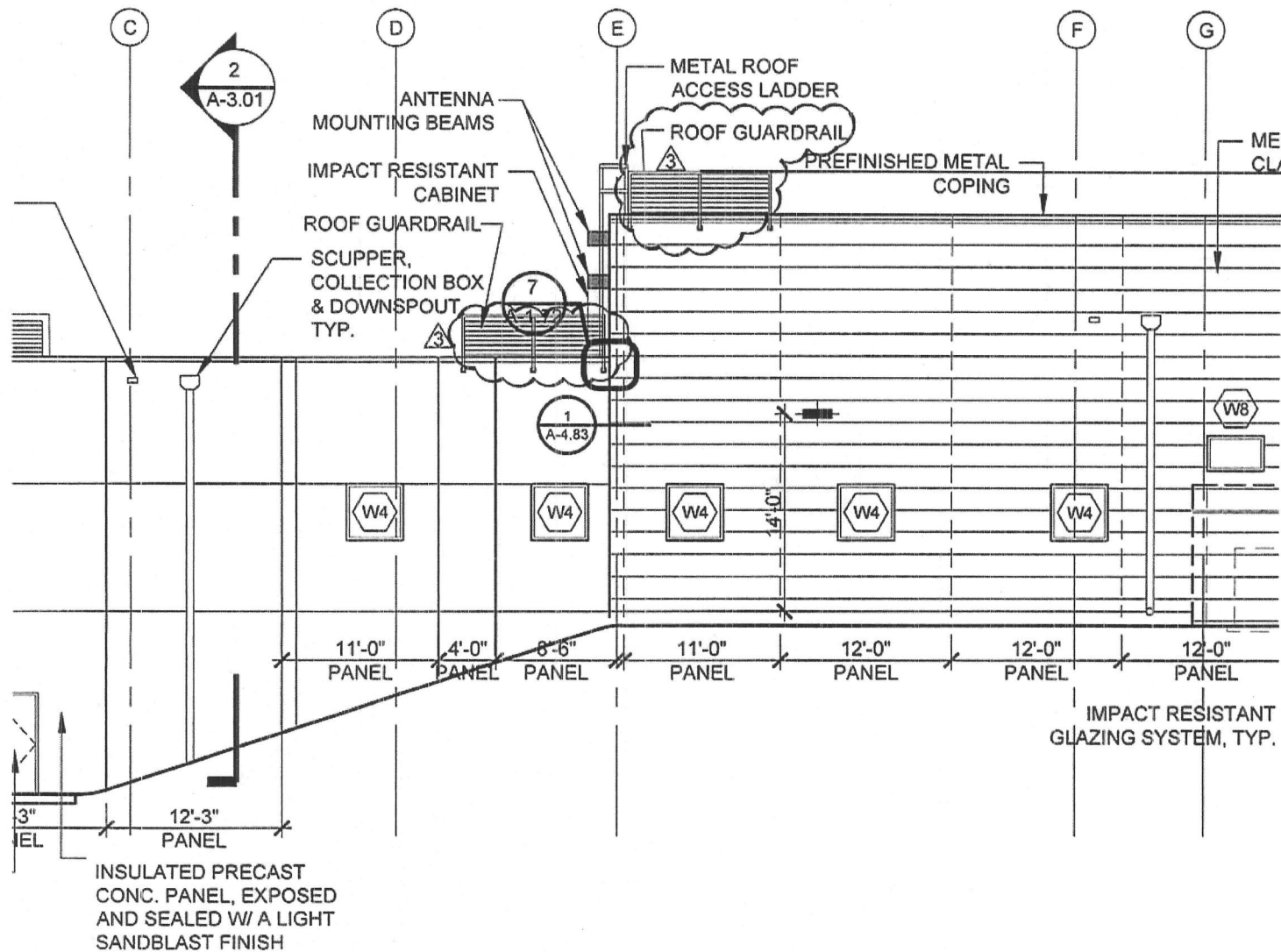
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- drawn: LG
- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no. 916

• sheet title:
**ELEVATIONS
PLAN**

• sheet reference:
A-2.02
SK A-2.02.1

1 NORTHWEST ELEVATION
SCALE: 3/32" = 1'-0"



2 SOUTHWEST ELEVATION
SCALE: 3/32" = 1'-0"



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 L.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

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 Number: 2010003461

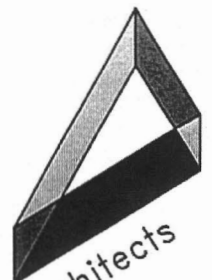
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- checked: SRF
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- date: 12.08.2014
- project no. 516

• sheet title:
**ELEVATIONS
 PLAN**

• sheet reference:
 A-2.02
 SK A-2.02.2



**Architects
Design
Group**

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
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 Number: 2010003481

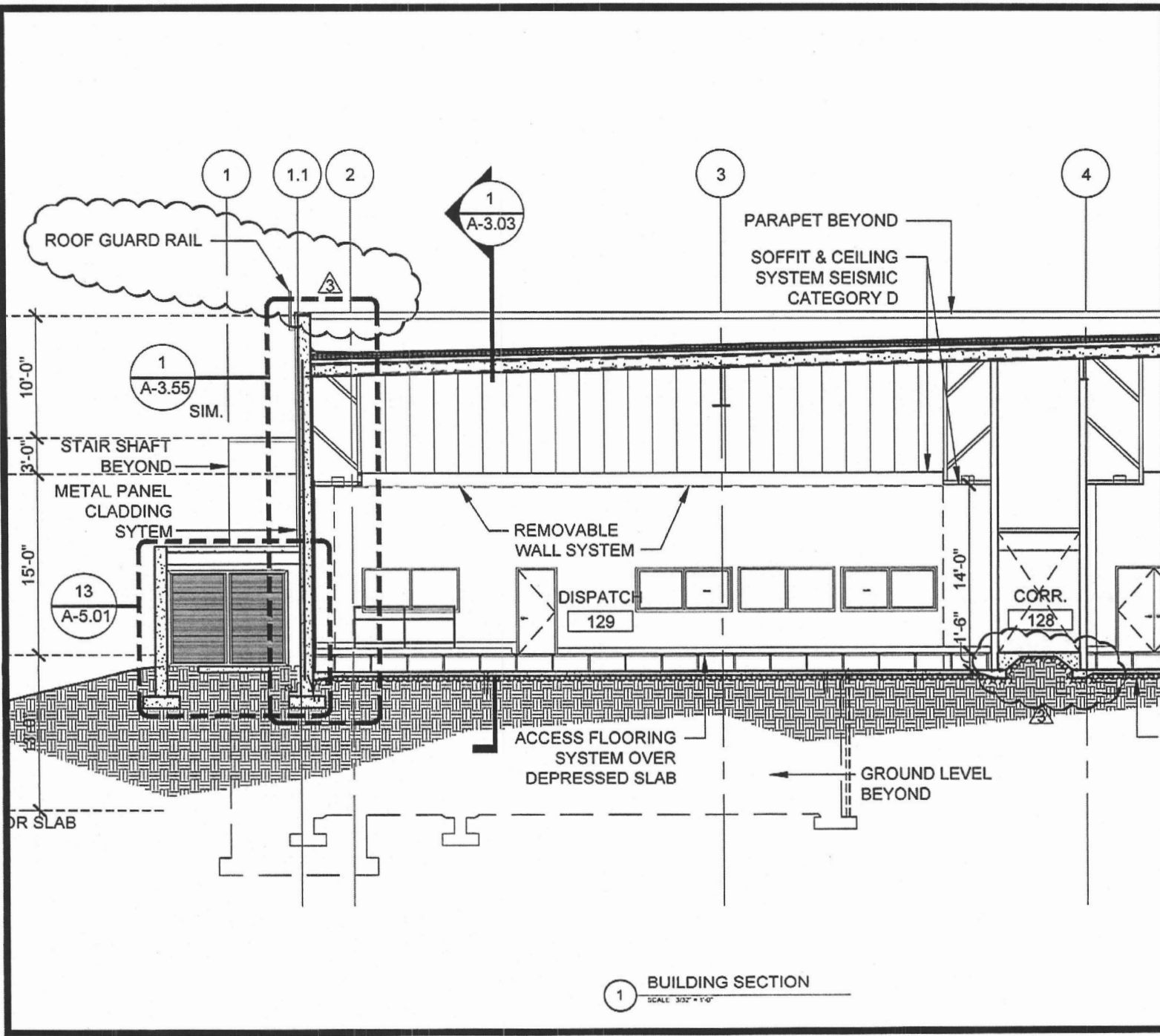
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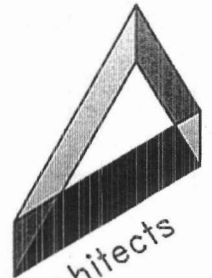
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- date: 12.08.2014
- project no.
916

• sheet title:
**BUILDING
SECTIONS**

• sheet reference:
A-3.01
SK A-3.01.1



1 BUILDING SECTION
SCALE: 3/32" = 1'-0"



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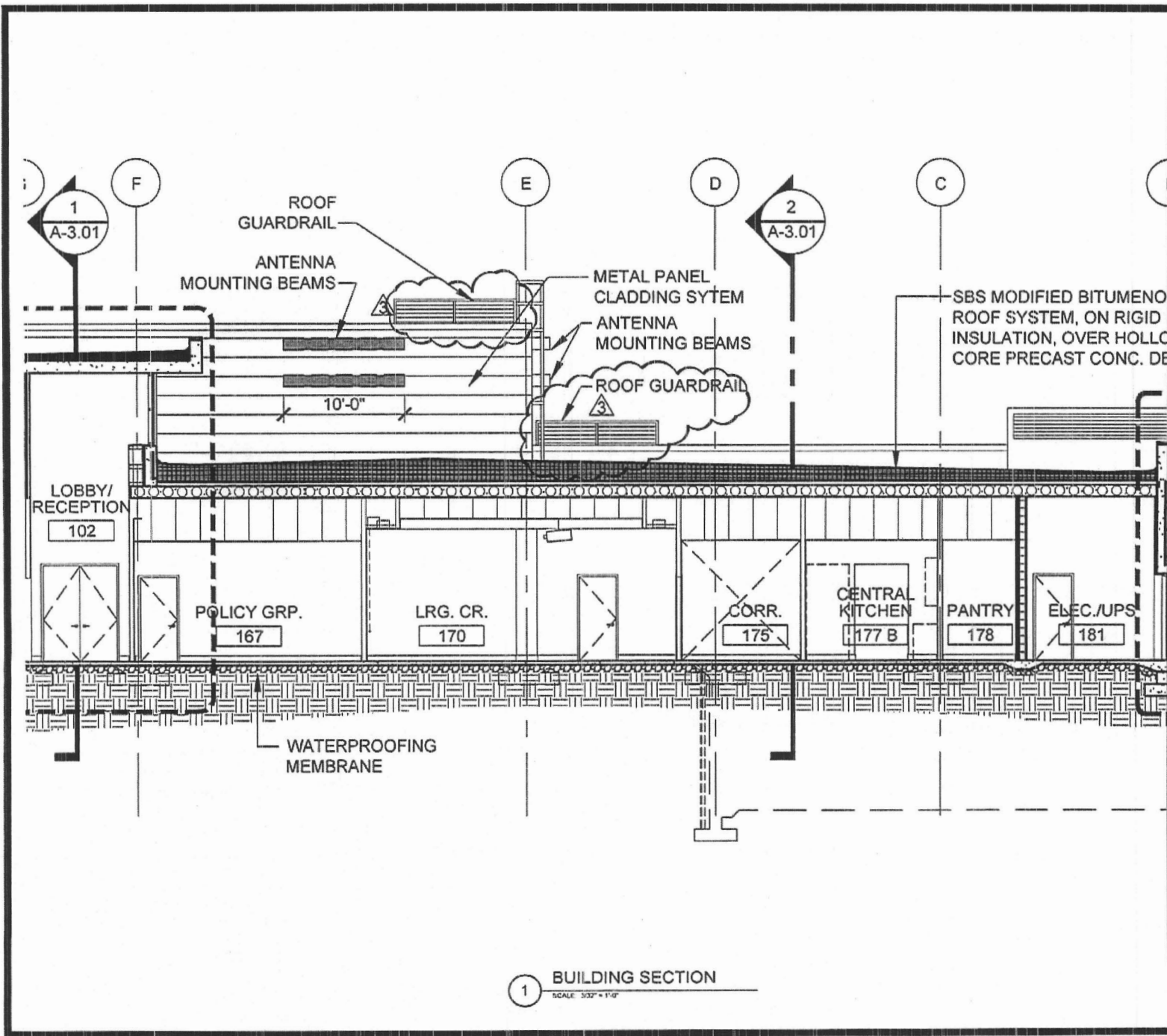
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 Ian A. Reeves, A.I.A.
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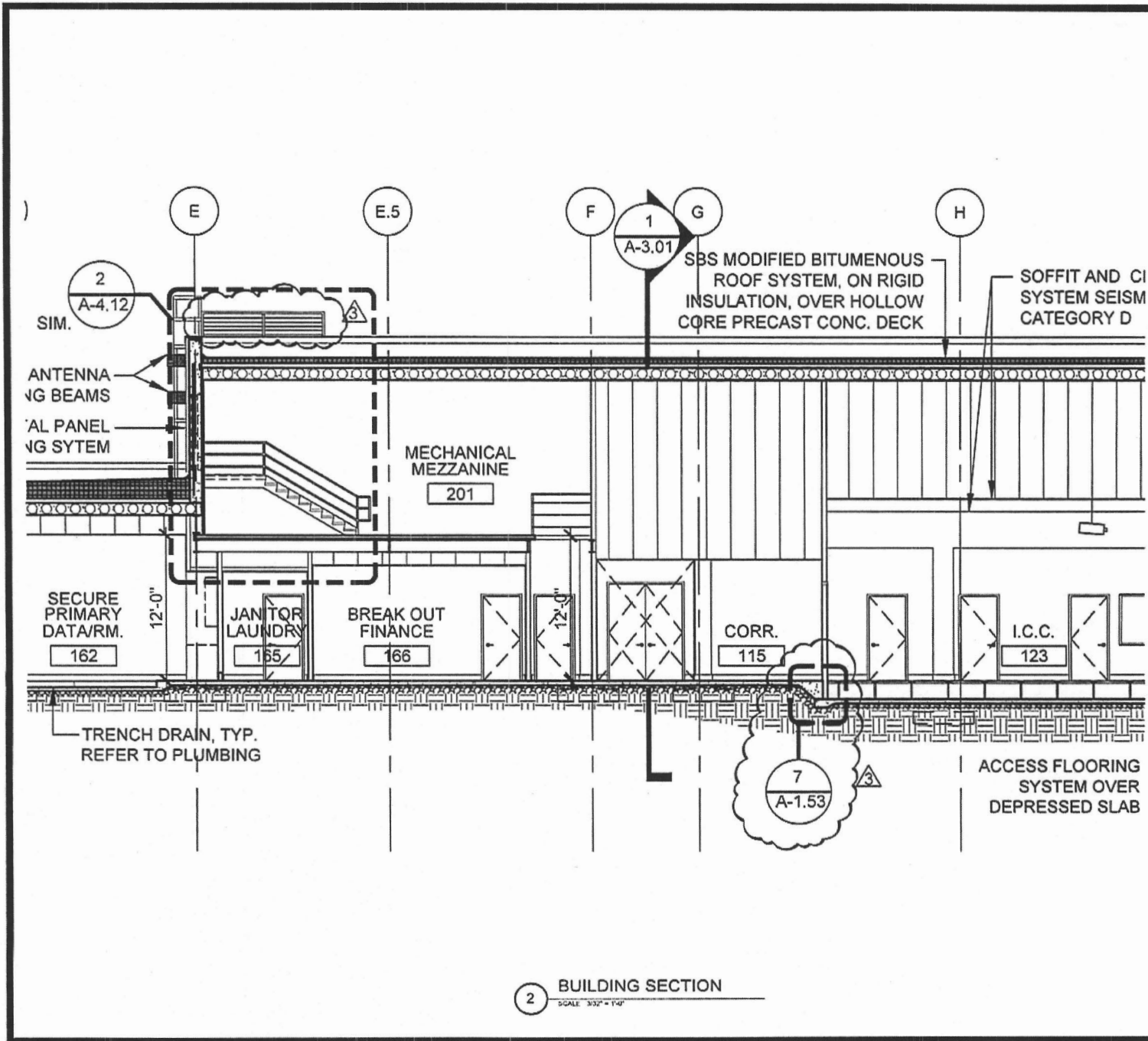
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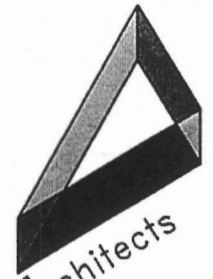
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**BUILDING
SECTIONS**
- sheet reference:
A-3.02
SK A-3.02.1



1 BUILDING SECTION
 SCALE: 3/32" = 1'-0"



2 BUILDING SECTION
SCALE: 3/32" = 1'-0"



**Architects
Design
Group**

Architects and Planners
I.S.K. Reeves V, F.A.J.A.
Ian A. Reeves, A.J.A.
Kevin Ratigan, A.J.A., LEED-AP
333 N. Knowles Ave.
Winter Park, Florida 32789
P: (407) 647-1700
Corporate Registration
Number: 2010003401

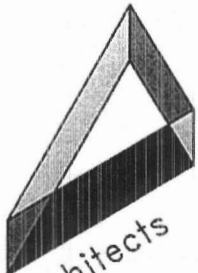
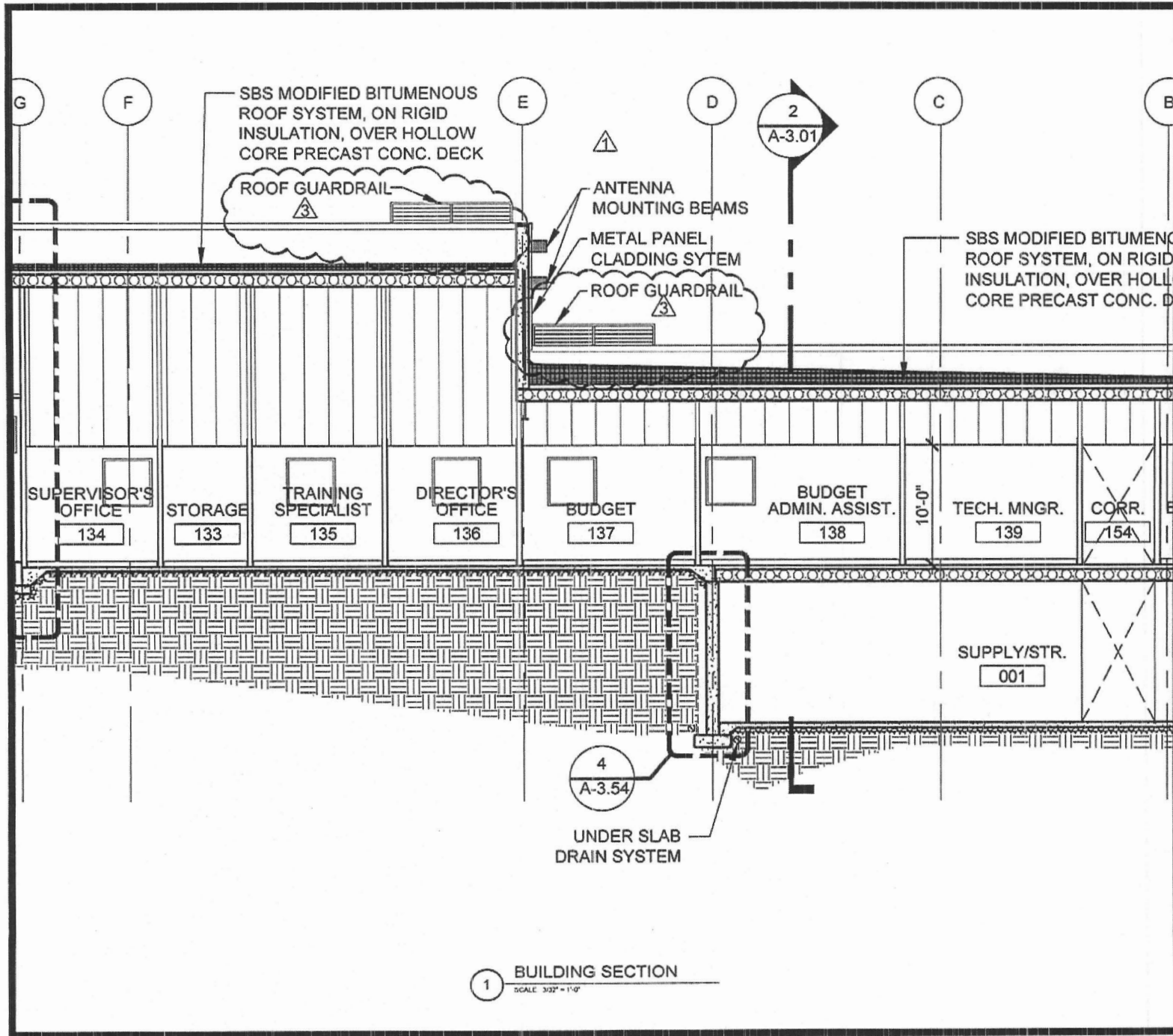
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• sheet title:
**BUILDING
SECTIONS**

• sheet reference:
A-3.02
SK A-3.02.2



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Design
Group

Architects and Planners

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

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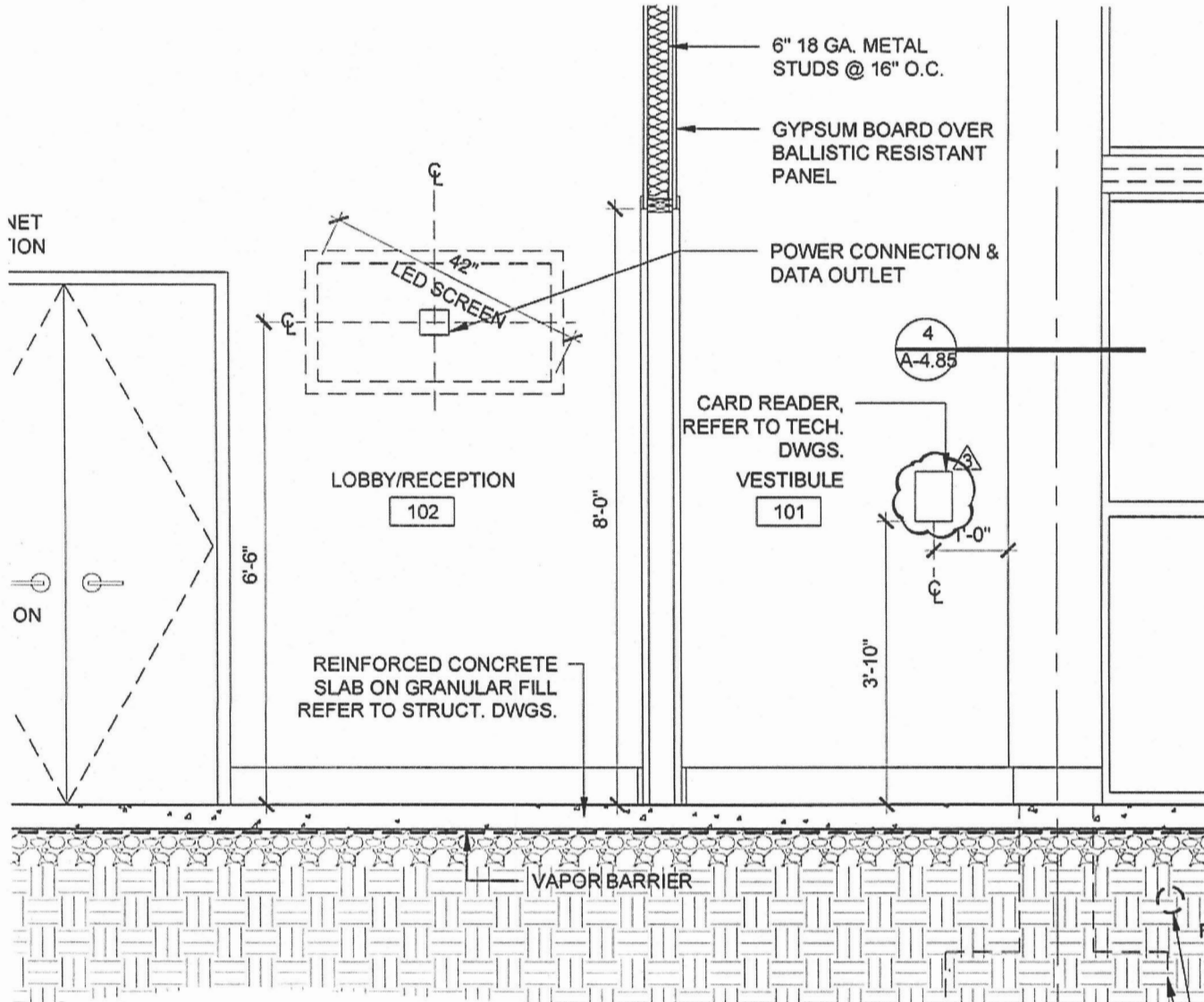
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- approved: SRF
- date: 12.08.2014
- project no. 916

• sheet title:
**BUILDING
SECTIONS**

• sheet reference:
A-3.03
SK A-3.03.1

1 **BUILDING SECTION**
SCALE 3/32" = 1'-0"



1 WALL SECTION
SCALE 1/2" = 1'-0"



**Architects
Design
Group**

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
533 N. Knowles Ave.
Winter Park, Florida 32789
P: (407) 647-1706
Corporate Registration
Number: 2010003481

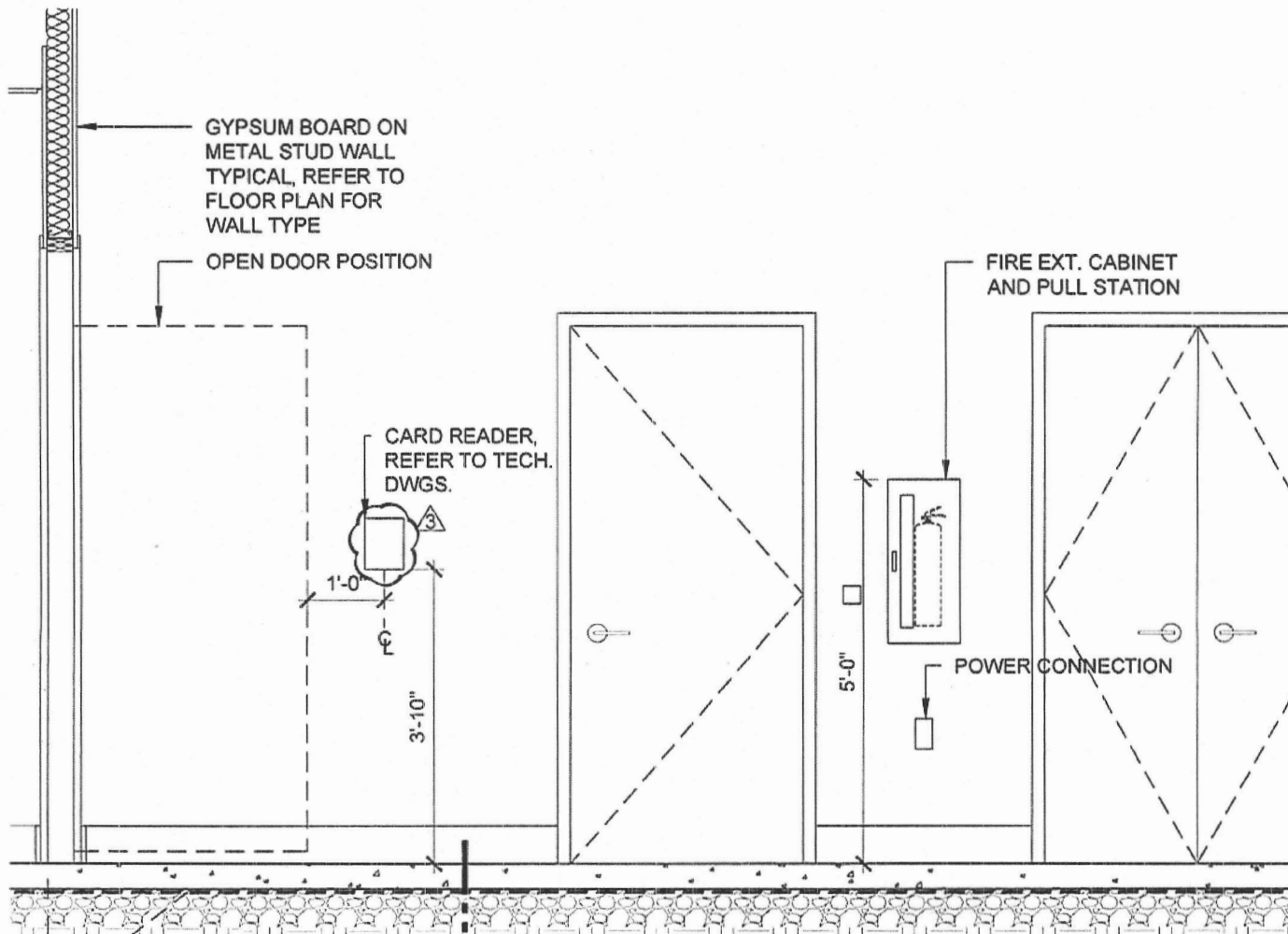
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- checked: SRF
- approved: SRF
- date: 12.08.2014
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• sheet title:
**WALL
SECTIONS**

• sheet reference:
A-3.51
SK A-3.51.1



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



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

333 N. Knoxville Ave.
Winter Park, Florida 32780
P: (407) 947-1700

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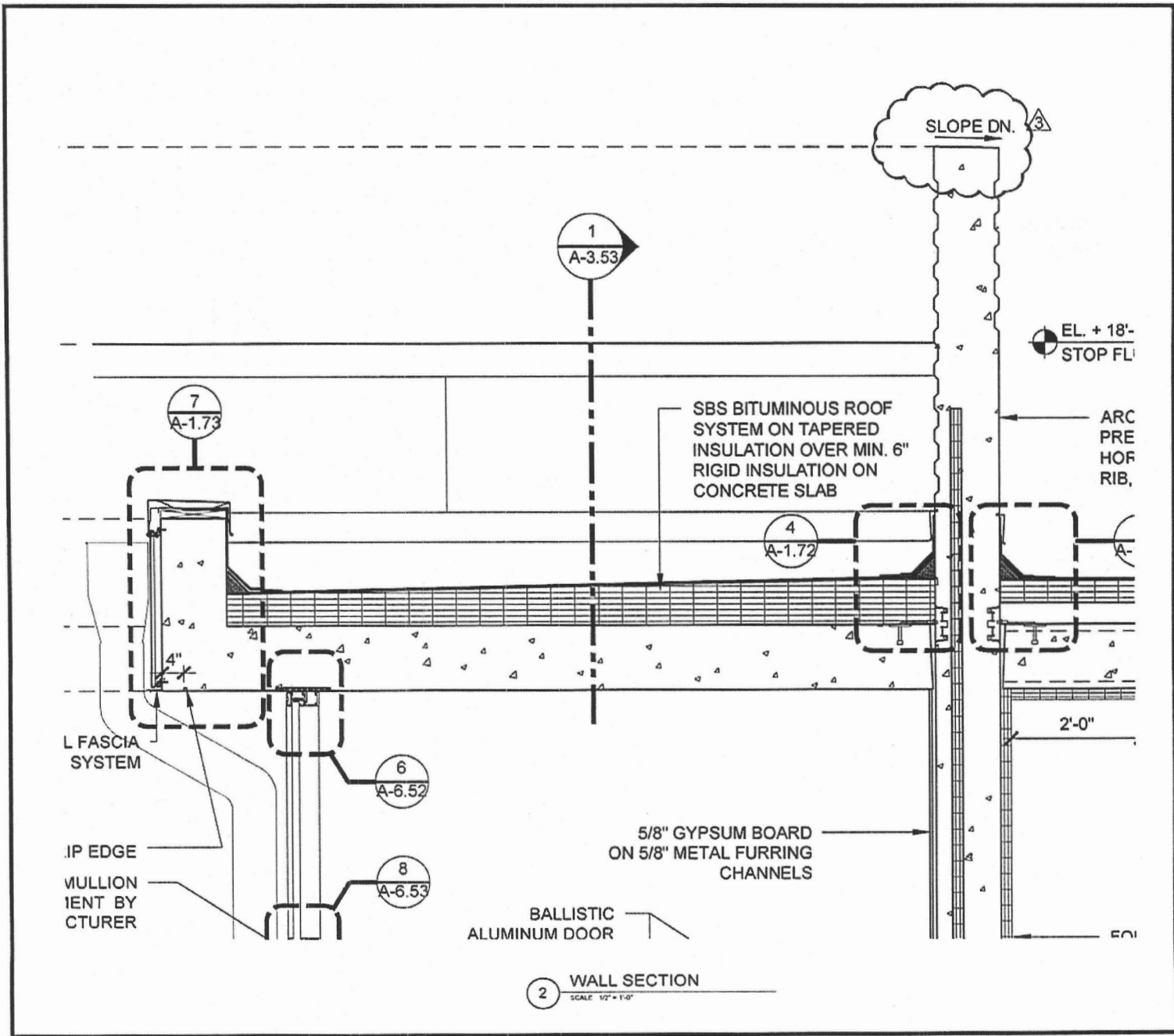
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• sheet title:
WALL
SECTIONS

• sheet reference:
A-3.51
SK A-3.51.2



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Design
Group**

Architects and Planners
 I.S.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 32789
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- approved: SRF
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• sheet title:
**WALL
SECTIONS**

• sheet reference:
A-3.53
SK A-3.53.1

EL. + 21'-0"
T.O. WALL
3

3'-0"

EL. + 18'-0"
T.O. PARAPET

2'-8"

EL. + 15'-0"
T.O. CONC. SLAB

1'-8"

EL. + 13'-8"
T.O. CONC. SLAB

1'-0"

4'-3"

EL. + 8'-5"

1
A-3.53

7
A-1.73

4
A-1.72

6
A-6.52

8
A-6.53

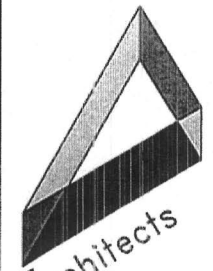
METAL PANEL FASCIA SYSTEM
1/2" X 1/2" DRIP EDGE
STEEL TUBE MULLION REINFORCEMENT BY WINDOW MANUFACTURER

5/8" GYPSUM BOARD ON 5/8" METAL FURRING CHANNELS

BALLISTIC ALUMINUM DOOR AND FRAME

SBS BITUMINOUS SYSTEM ON TAPE INSULATION OVER RIGID INSULATION CONCRETE SLAB

2 WALL SECTION
SCALE: 1/4" = 1'-0"



Architects Design Group

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

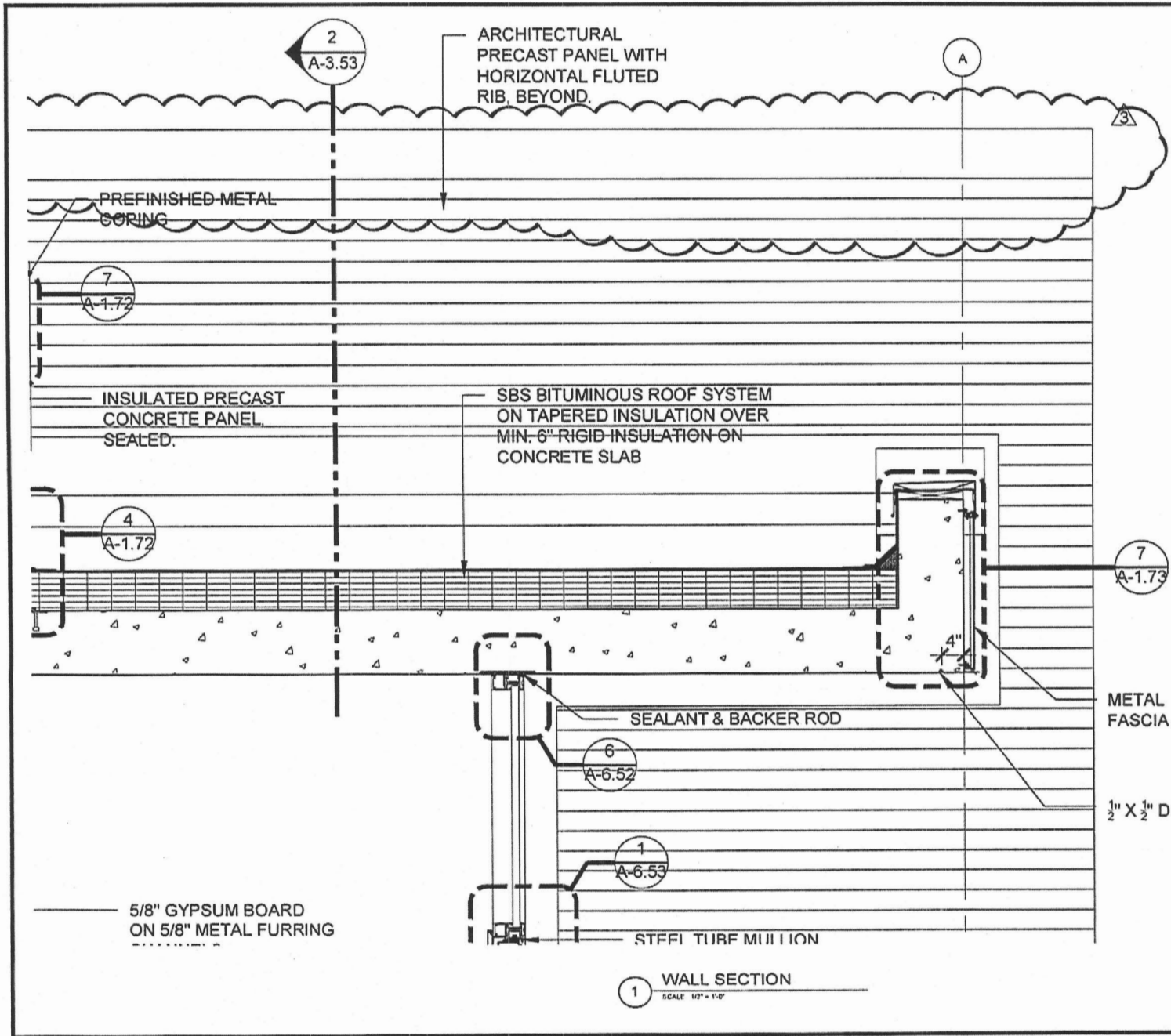
EMERGENCY COMMUNICATIONS CENTER

BOONE COUNTY MISSOURI

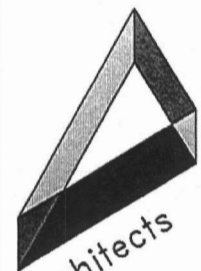
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- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no. 916

• sheet title: WALL SECTIONS

• sheet reference: A-3.53
SK A-3.53.2



1 WALL SECTION
SCALE 1/2" = 1'-0"



**Architects
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Group**

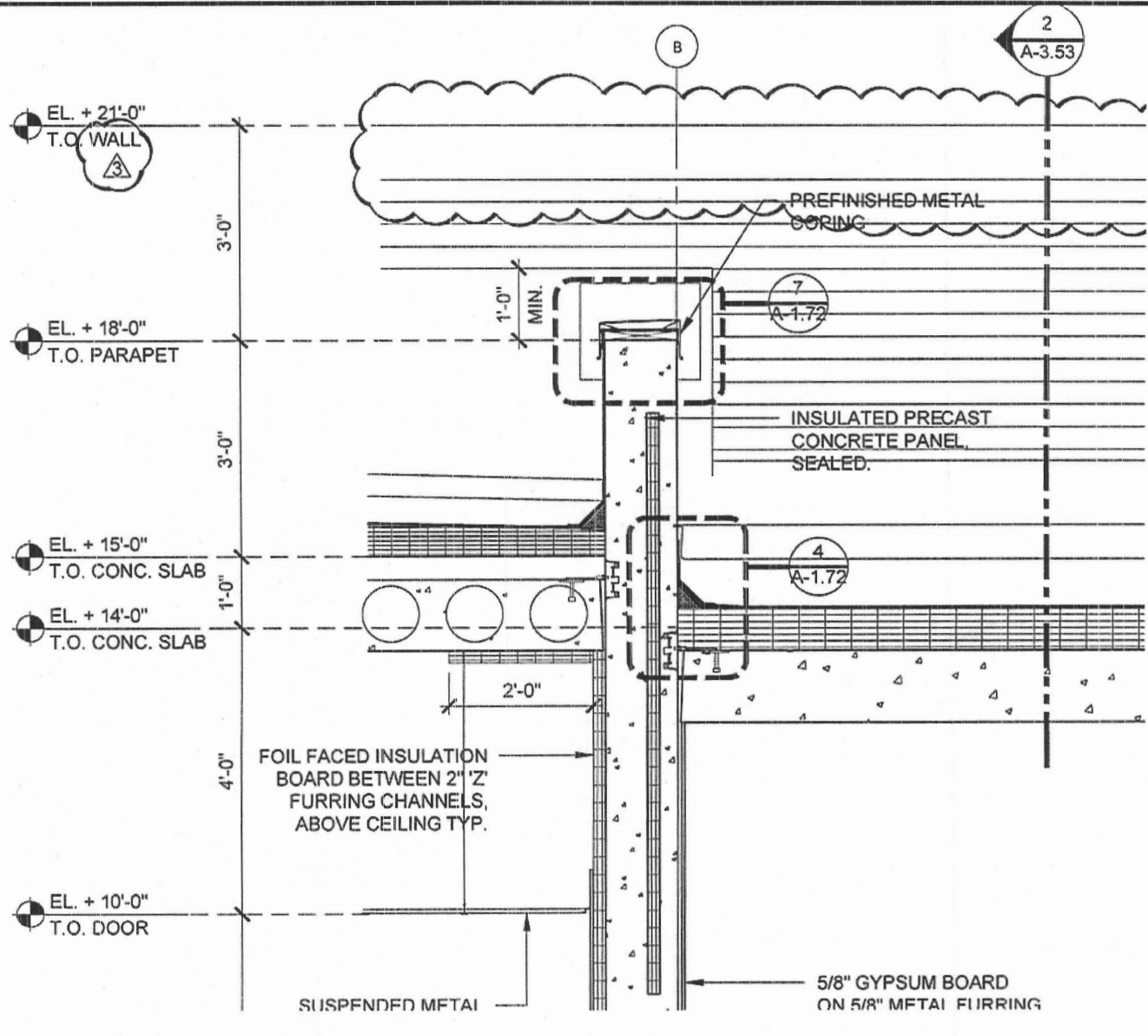
Architects and Planners
I.S.K. Reeves V, F.A.I.A.
Ian A. Reeves, A.I.A.
Kevin Raligan, A.I.A., LEED-AP
333 N. Knowles Ave.
Winter Park, Florida 32789
P: (407) 647-1706
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Number: 201003481

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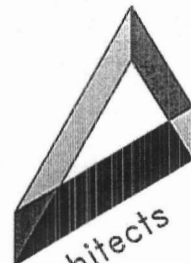
**BOONE COUNTY
MISSOURI**

- scale: AS NOTED
- drawn: LG
- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no. 916

- sheet title:
**WALL
SECTIONS**
- sheet reference:
A-3.53
SK A-3.53.3



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



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Design
Group**

Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Ralston, A.I.A., LEED-AP
 333 N. Knowles Ave.
 Winter Park, Florida 32789
 P: (407) 647-1705
 Corporate Registration
 Number: 201003481

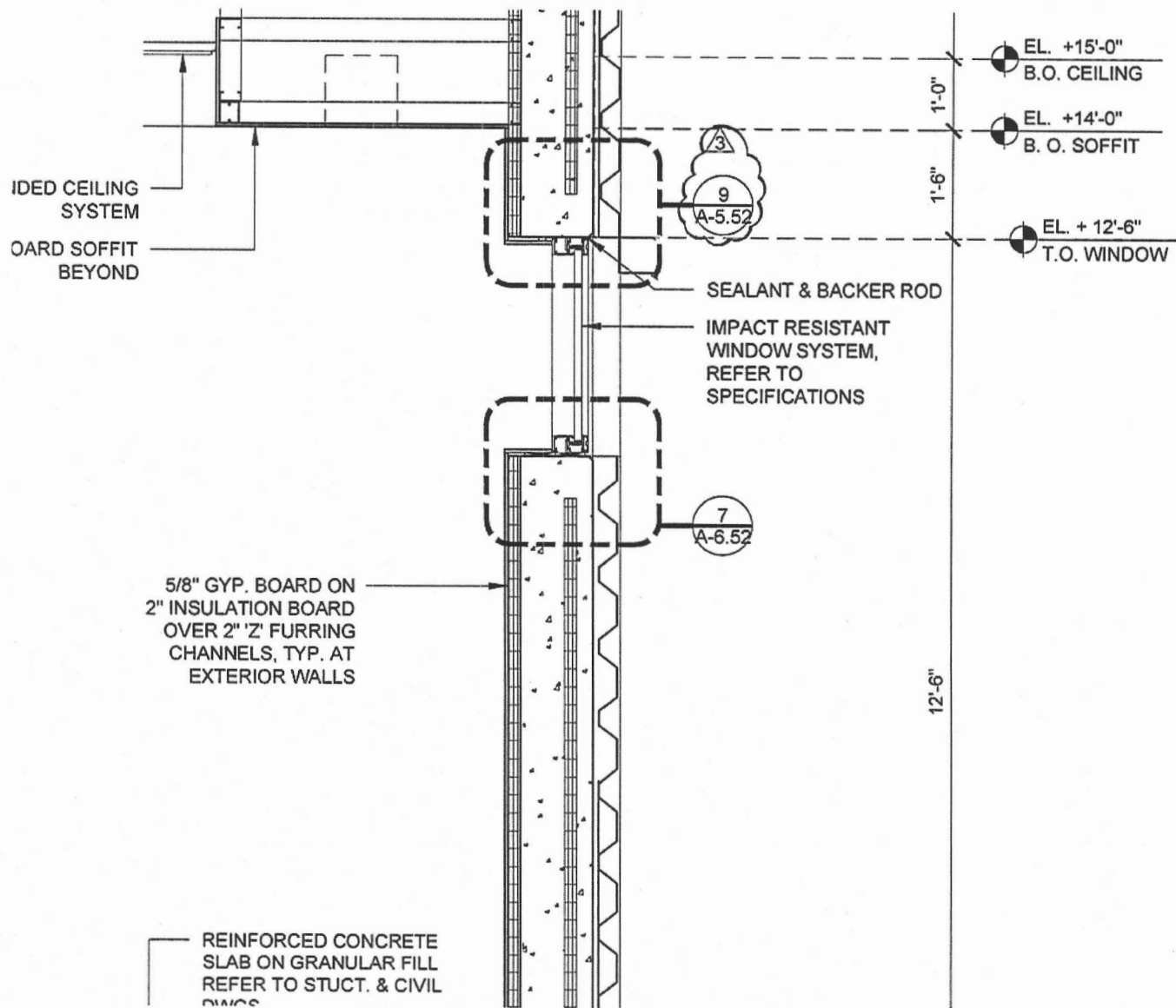
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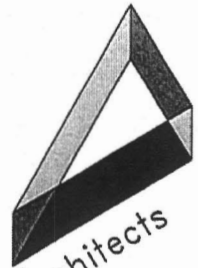
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- approved: SRF
- date: 12.08.2014
- project no. 916

• sheet title:
**WALL
SECTIONS**

• sheet reference:
A-3.53
SK A-3.53.4



2 WALL SECTION
 SCALE 1/2" = 1'-0"



**Architects
 Design
 Group**

Architects and Planners

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

333 N. Knowles Ave.
 Winter Park, Florida 32780
 P: (407) 647-1706

Corporate Registration
 Number: 2010003481

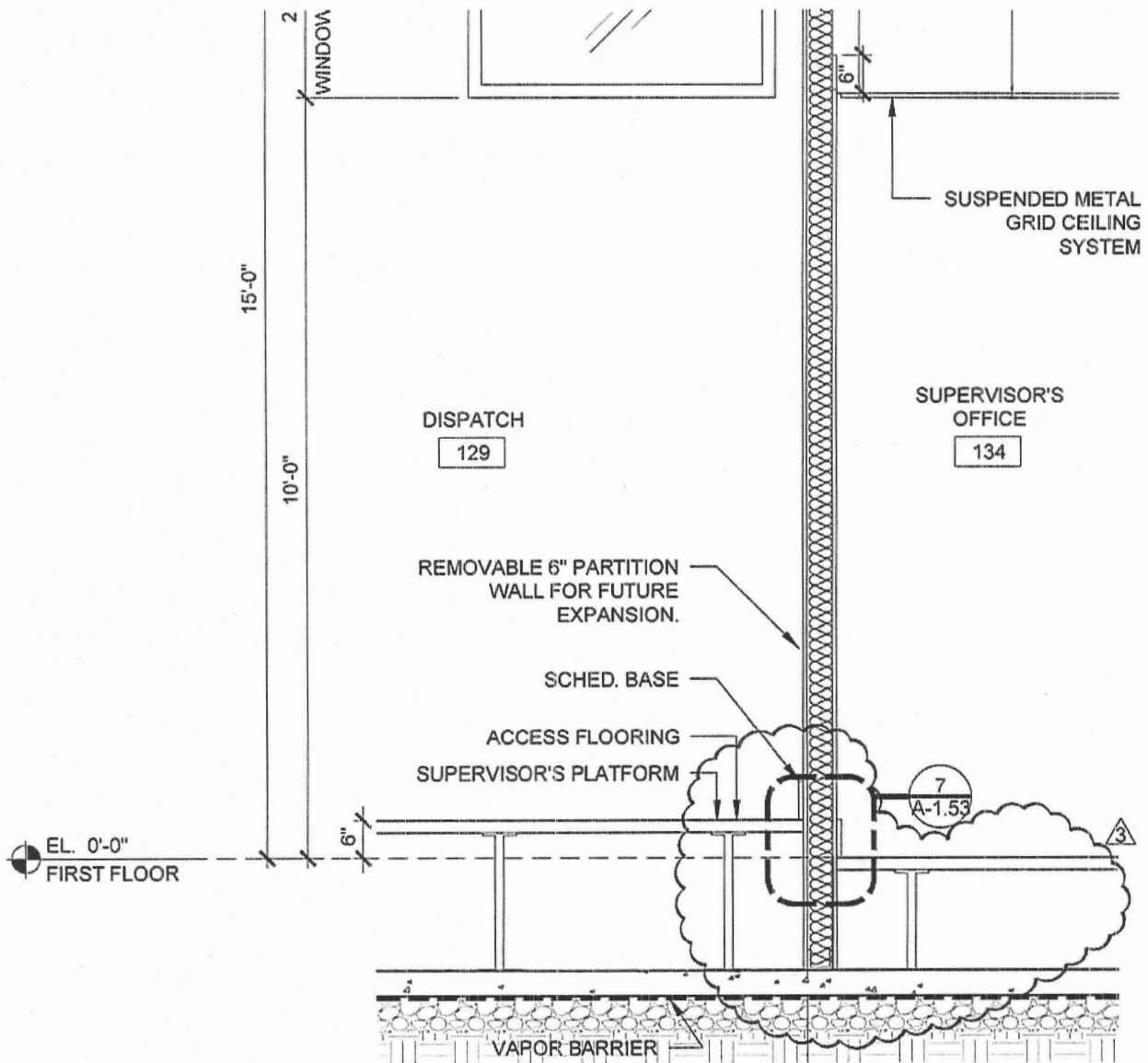
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- drawn: LG
- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no.
916

• sheet title:
**WALL
 SECTIONS**

• sheet reference:
 A-3.55
 SK A-3.55.1



3 WALL SECTION
SCALE 1/2" = 1'-0"



**Architects
Design
Group**

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) 617-1706
 Corporate Registration
 Number: 2610023488

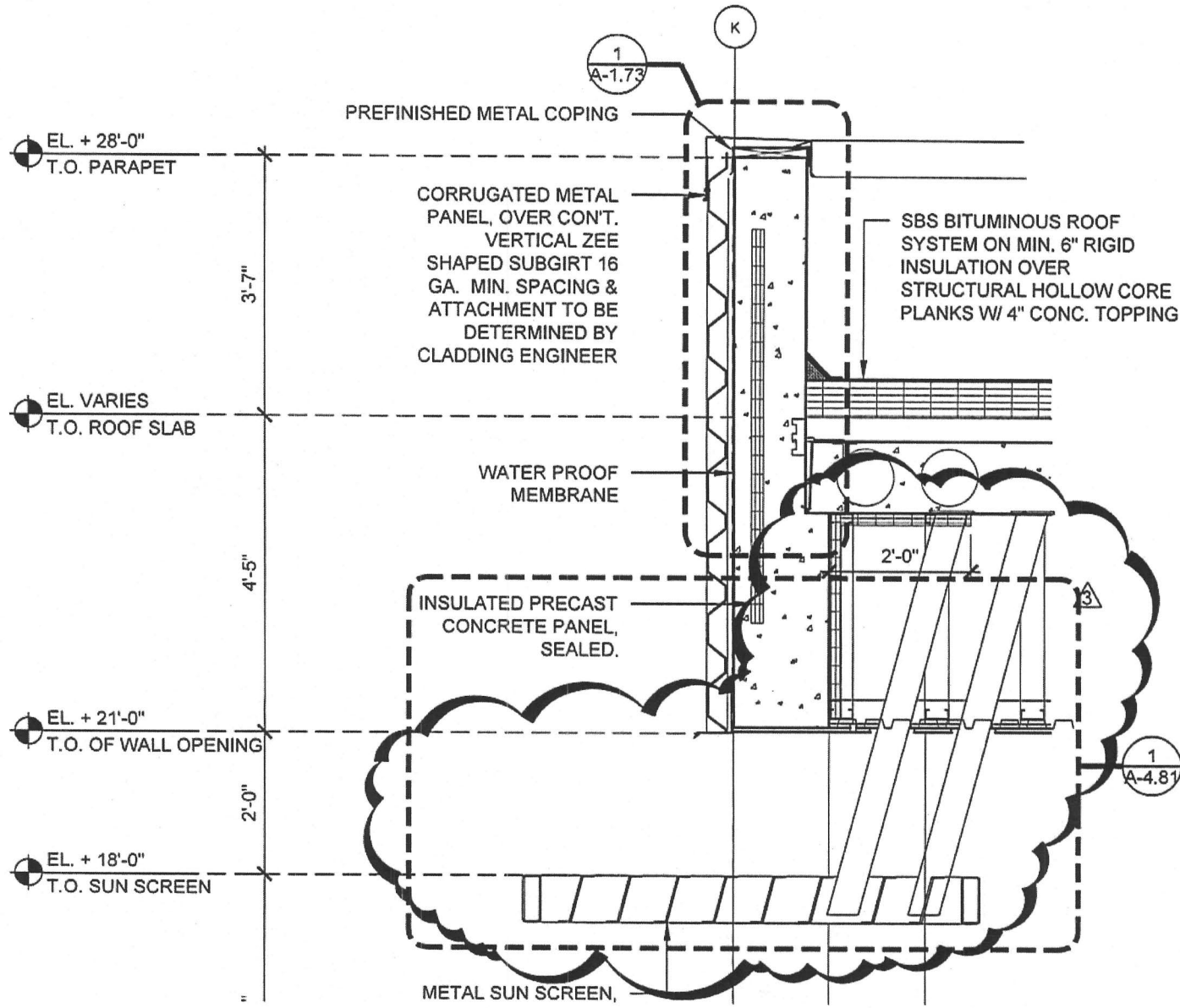
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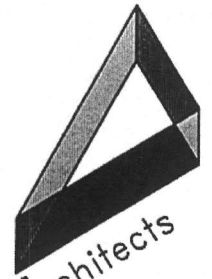
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- date: 1E.08.2314
- project no.
916

• sheet title:
**WALL
SECTIONS**

• sheet reference:
A-3.55
SK A-3.55.2



3 WALL SECTION
SCALE 1/2" = 1'-0"



Architects
Design
Group

Architects and Planners
I.S.K. Reeves V, F.A.I.A.
Ian A. Reeves, A.J.A.
Kevin Raligan, A.I.A., LEED-AP
333 N. Knowles Ave.
Winter Park, Florida 32789
P: (407) 647-1700
Corporate Registration
Number: 201003481

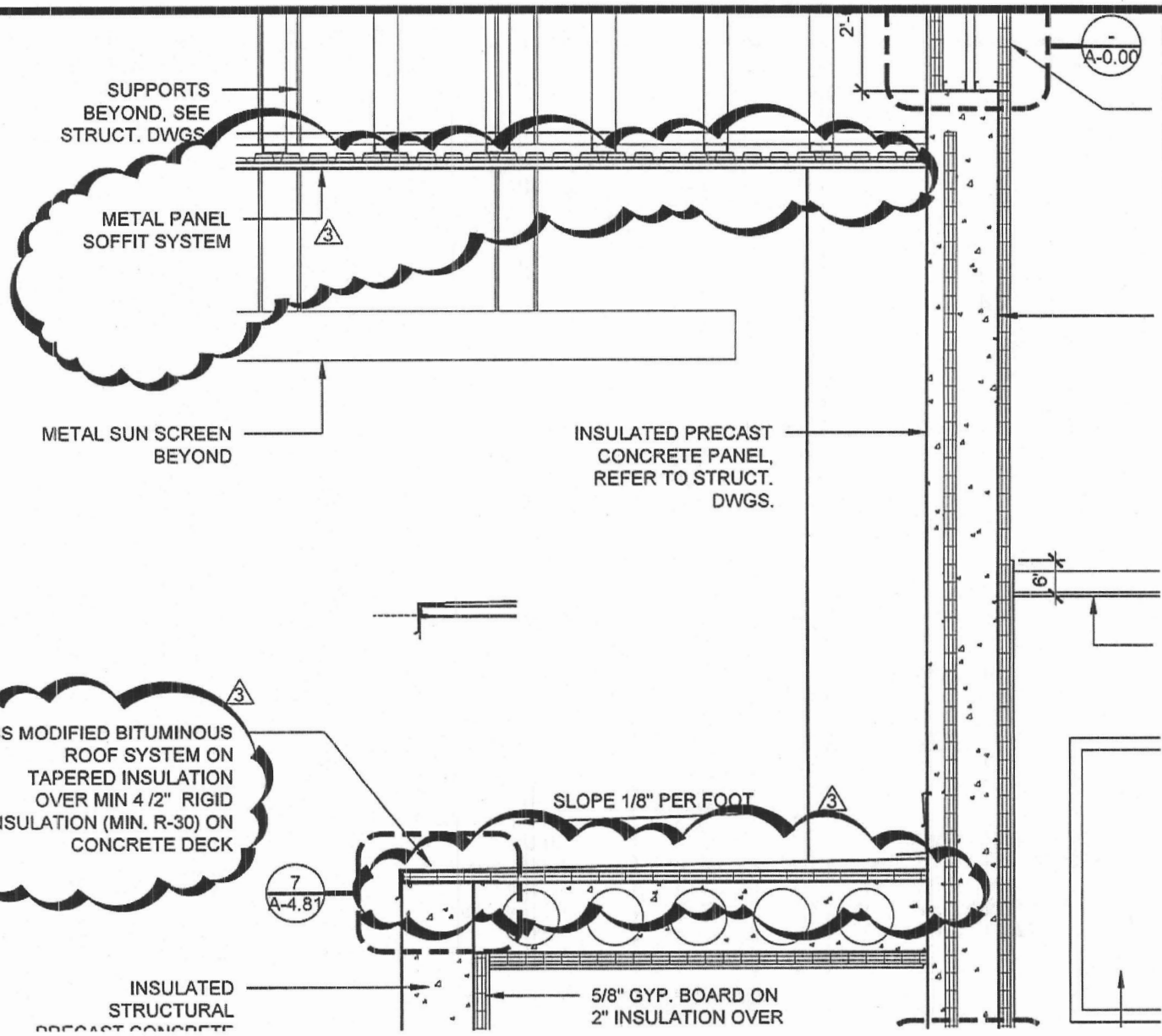
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- drawn: LG
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- approved: SRF
- date: 12.08.2014
- project no. 916

• sheet title:
WALL
SECTIONS

• sheet reference:
A-3.56
SK A-3.56.1



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



Architects and Planners
 L.S.K. Reeves V, F.A.J.A.
 Ian A. Reeves, A.J.A.
 Kevin Ridgan, A.J.A., LEED-AP
 333 N. Knowles Ave.
 Winter Park, Florida 32789
 P: (407) 647-1706
 Corporate Registration
 Number: 2010003401

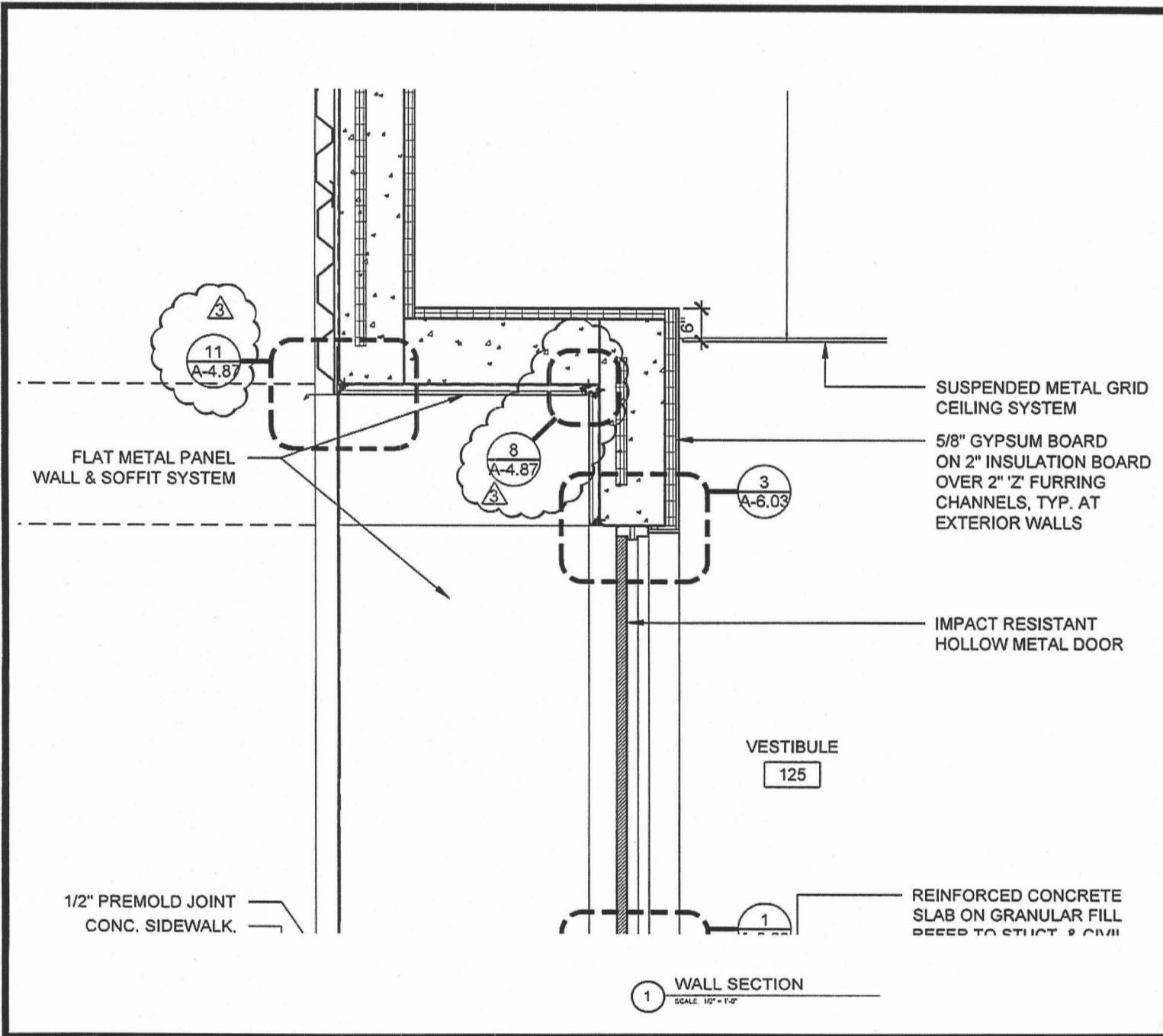
EMERGENCY COMMUNICATIONS CENTER

BOONE COUNTY MISSOURI

- scale: AS NOTED
- drawn: LG
- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no. 916

• shoot title:
WALL SECTIONS

• shoot reference:
A-3.56
SK A-3.56.2



Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Raigun, A.I.A., LEED-AP
 333 N. Knowles Ave.
 Winter Park, Florida 32780
 P: (407) 647-1700
 Corporate Registration
 Number: 2010003481

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- approved: SRF
- date: 12.08.2014
- project no. 916

• sheet title:
WALL SECTIONS
 • sheet reference:
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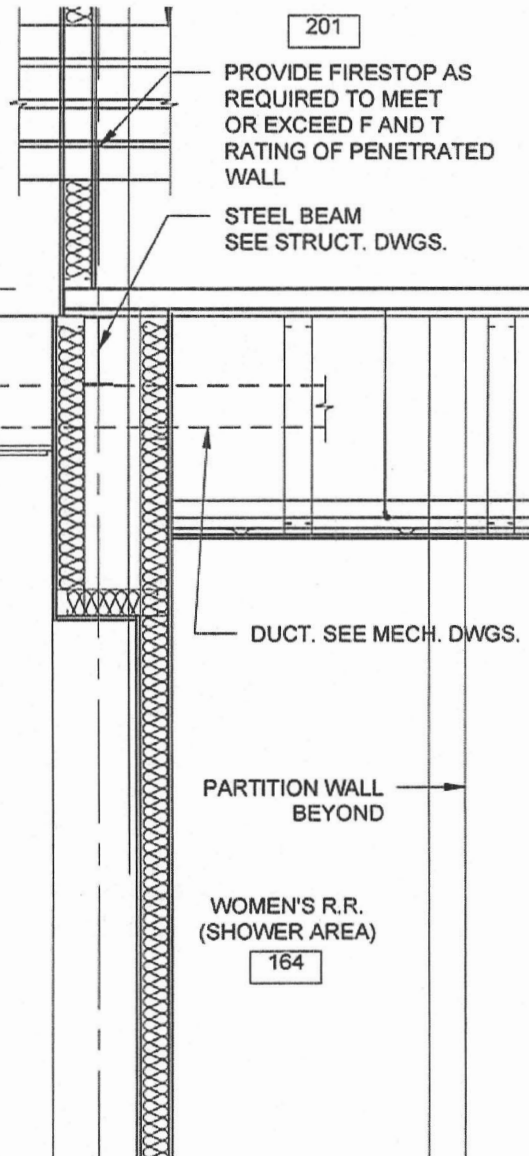
1 WALL SECTION
 SCALE: 1/2" = 1'-0"

EL. 12'-0"
T.O. MEZZANINE

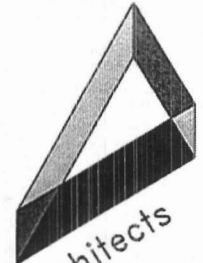
12'-0"

CORRIDOR

128



4 WALL SECTION
SCALE 1/2" = 1'-0"



Architects
Design
Group

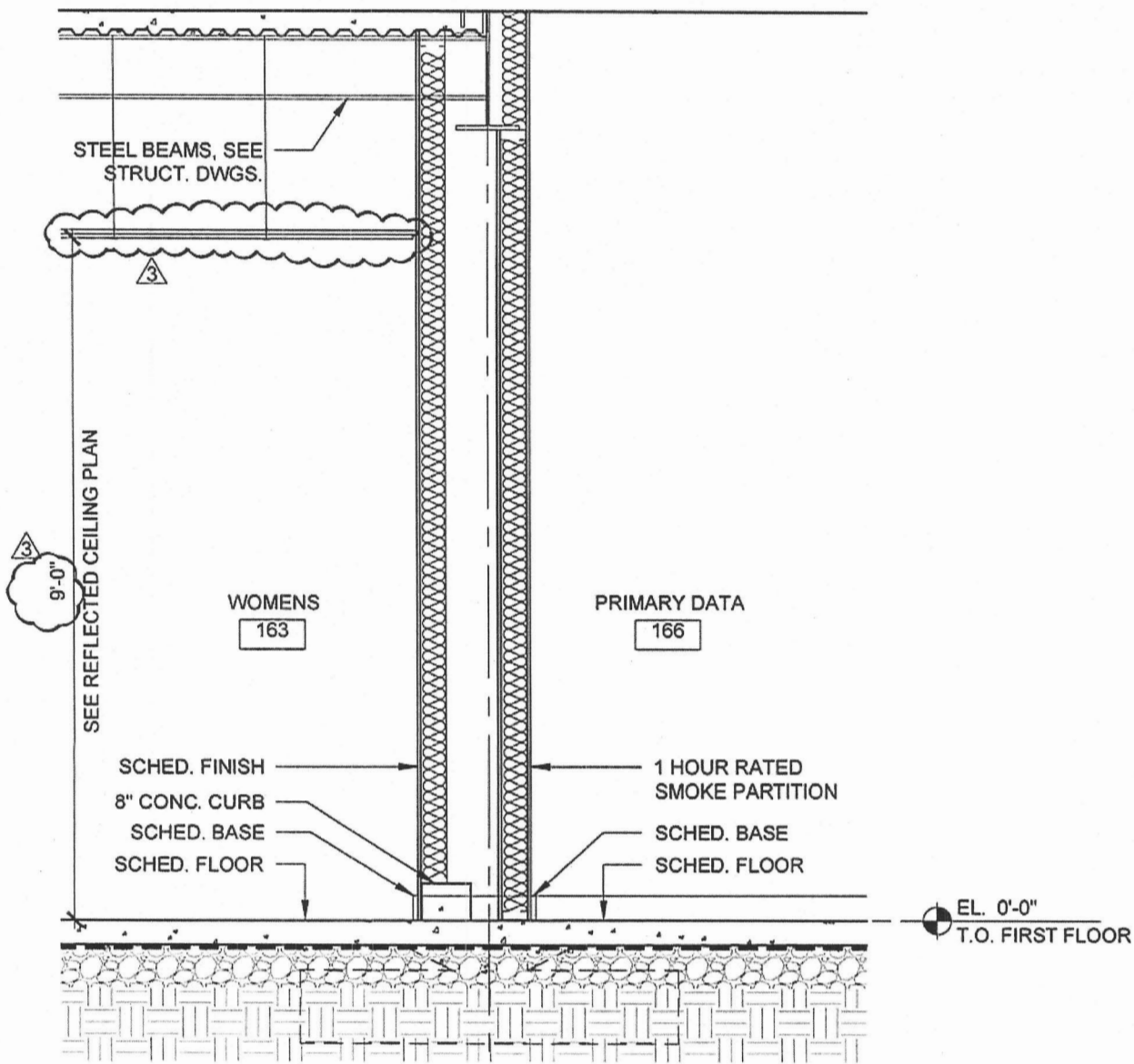
Architects and Planners
I.S.K. Reeves V, F.A.I.A.
Ian A. Reeves, A.I.A.
Kevin Ratigan, A.I.A., LEED-AP
333 N. Kingsley Ave.
Winter Park, Florida 32789
P: (407) 647-1700
Corporate Registration
Number: 2010003481

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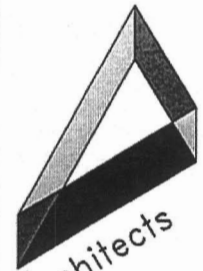
BOONE COUNTY
MISSOURI

- scale: AS NOTED
- drawn: LG
- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no. 916

- sheet title:
WALL
SECTIONS
- sheet reference:
A-3.57
SK A-3.57.1



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



**Architects
Design
Group**

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) 647-1700

Corporate Registration
Number: 2010003481

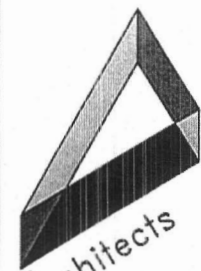
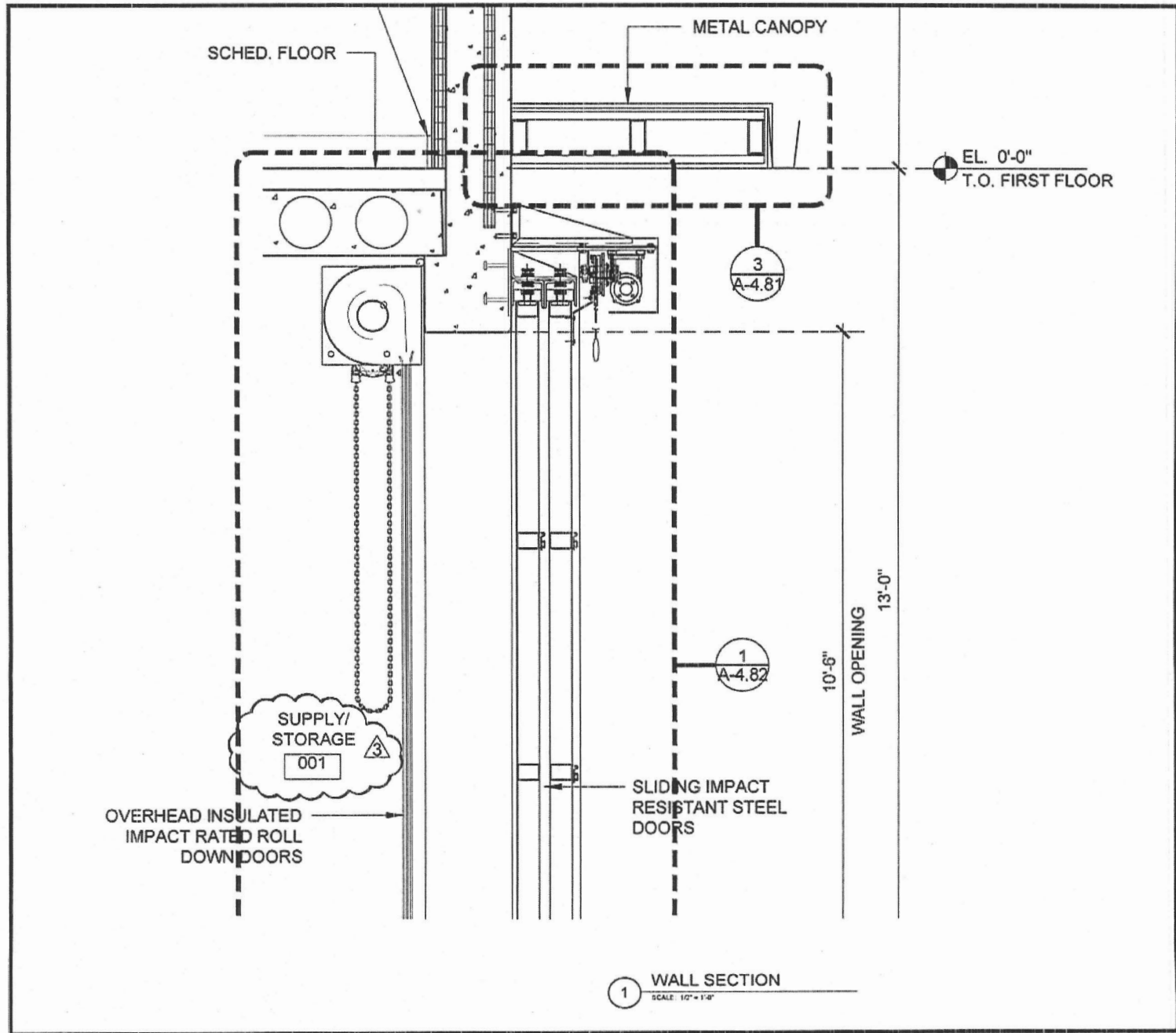
**EMERGENCY
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**BOONE COUNTY
MISSOURI**

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- drawn: LG
- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no.
916

• sheet title:
**WALL
SECTIONS**

• sheet reference:
A-3.57
SK A-3.57.2



**Architects
Design
Group**

Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Rutigan, A.I.A., LEED-AP
 333 N. Knowles Ave.
 Winter Park, Florida 32789
 P: (407) 647-1706
 Corporate Registration
 Number: 2010003461

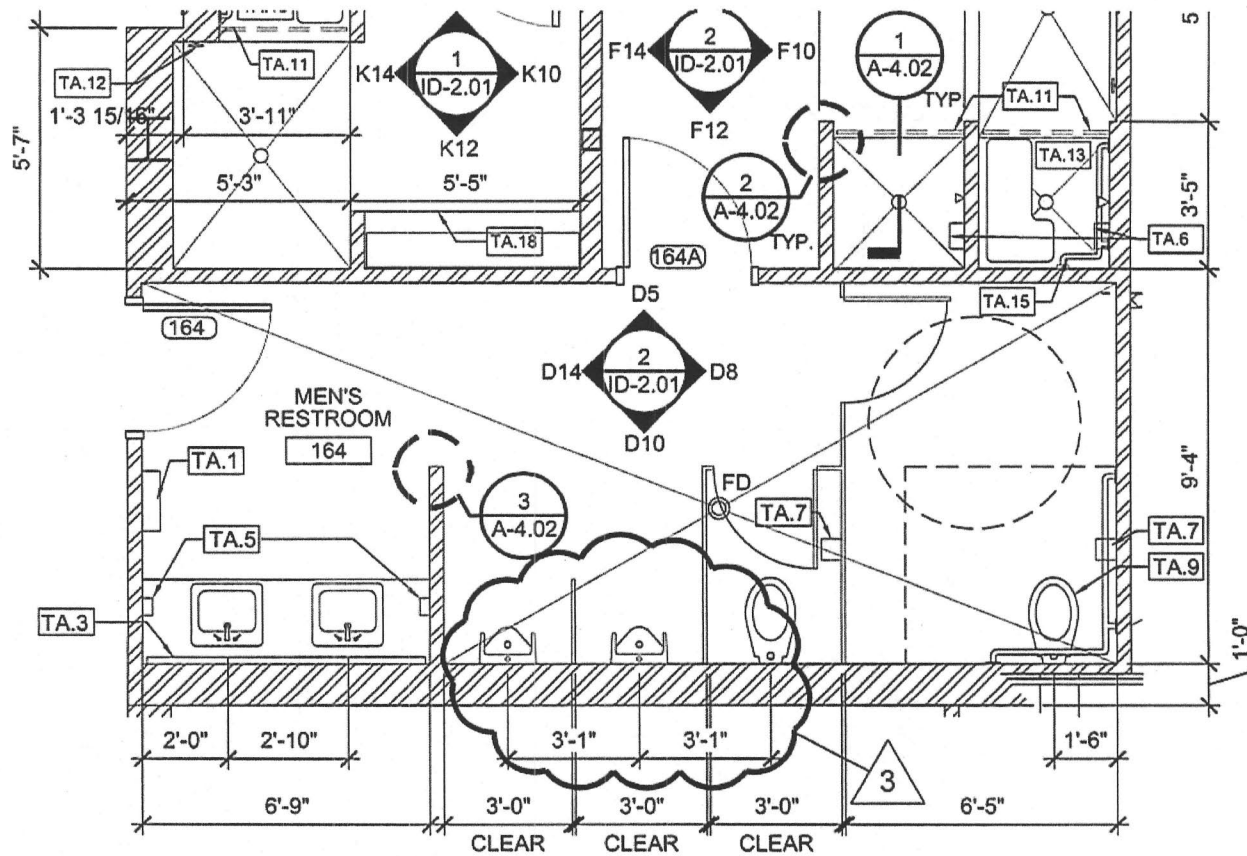
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**BOONE COUNTY
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- date: 12.06.2014
- project no. 916

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**WALL
SECTIONS**

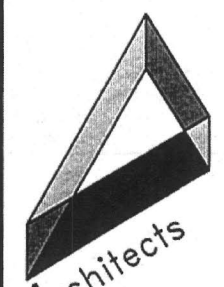
• sheet reference:
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SK A-3.57.3



5

ENLARGED PLAN - RESTROOMS 163/164

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



**Architects
Design
Group**

Architects and Planners
 I.S.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 32789
 P: (407) 647-1706
 Corporate Registration
 Number: 2010003481

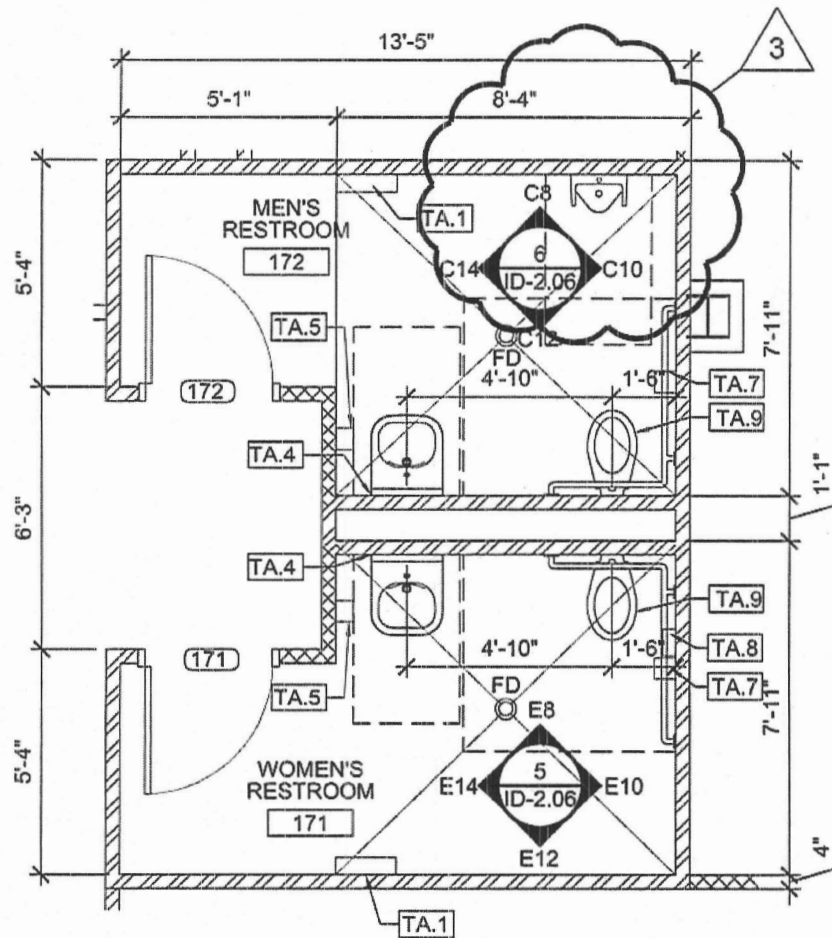
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COMMUNICATIONS
CENTER**

**BOONE COUNTY
MISSOURI**

- scale: 1/4" = 1'-0"
- drawn: SK
- checked: EM
- approved:
- date: 12/08/2014
- project no. 916

• sheet title:
**ENLARGED
RESTROOM PLAN**

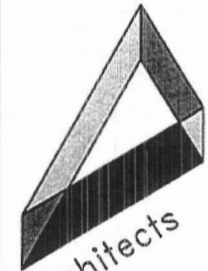
• sheet reference:
A-4.01
A-4.01A



2

ENLARGED PLAN - RESTROOMS 171/172

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



Architects
Design
Group

Architects and Planners

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

333 N. Knoxville Ave.
Winter Park, Florida 32789
P: (407) 847-1706

Corporate Registration
Number: 2010003481

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BOONE COUNTY
MISSOURI

- scale: 1/4" = 1'-0"
- drawn: SK
- checked: EM
- approved:
- date: 12/08/2014
- project no.
916

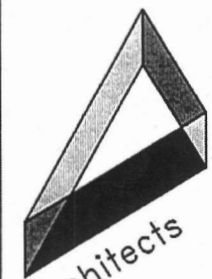
• sheet title:
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RESTROOM PLAN

• sheet reference:
A-4.01
A-4.01B

ACCESSORIES SCHEDULE

| TAG # | DESCRIPTION |
|-------|---|
| TA.1 | PAPER TOWEL DISPENSER, SUPPLIED BY OWNER - INSTALLED BY CONTRACTOR |
| TA.2 | NOT USED |
| TA.3 | MIRROR (SEE INTERIOR ELEVATIONS FOR WIDTH X HEIGHT - AS INDICATED ON DRAWINGS) |
| TA.4 | ADA MIRROR- 18"WX36"H- BASIS OF DESIGN: BOBRICK #B165 |
| TA.5 | SOAP DISPENSER, SUPPLIED BY OWNER - INSTALLED BY CONTRACTOR |
| TA.6 | SOAP DISPENSER FOR SHOWER, SURFACE MOUNTED- BASIS OF DESIGN: KIMBERLY CLARK #92194 |
| TA.7 | TOILET TISSUE DISPENSER, SURFACE MOUNTED- BASIS OF DESIGN: BOBRICK #B-2888 |
| TA.8 | SANITARY NAPKIN DISPOSAL, SURFACE MOUNTED- BASIS OF DESIGN: BOBRICK #B-270 |
| TA.9 | TOILET GRAB BARS - INDIVIDUAL 18", 36" AND 42" BARS - BASIS OF DESIGN: BOBRICK #B5806 |
| TA.10 | S.S. MOP/BROOM HOLDER 48" BASIS OF DESIGN: #B223 |

3



**Architects
Design
Group**

Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Raigan, A.I.A., LEED-AP
 333 N. Knowles Ave.
 Winter Park, Florida 32789
 P: (407) 647-1706
 Corporate Registration
 Number: 2010003481

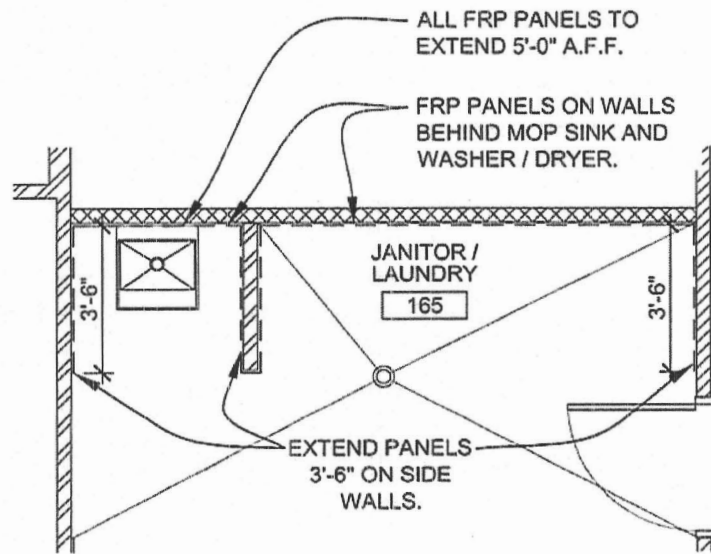
**EMERGENCY
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**BOONE COUNTY
MISSOURI**

- scale:
- drawn: SK
- checked: EM
- approved:
- date: 12/08/2014
- project no.
916

• sheet title:
**ENLARGED
RESTROOM PLAN**

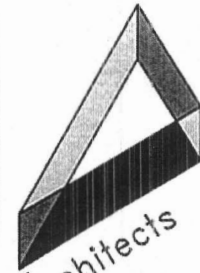
• sheet reference:
A-4.01
A-4.01C



ENLARGED PLAN - JANITOR / LAUNDRY #165

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

9



Architects
Design
Group

Architects and Planners

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

333 N. Knowles Ave.
Winter Park, Florida 32789
P: (407) 647-1700

Corporate Registration
Number: 201000481

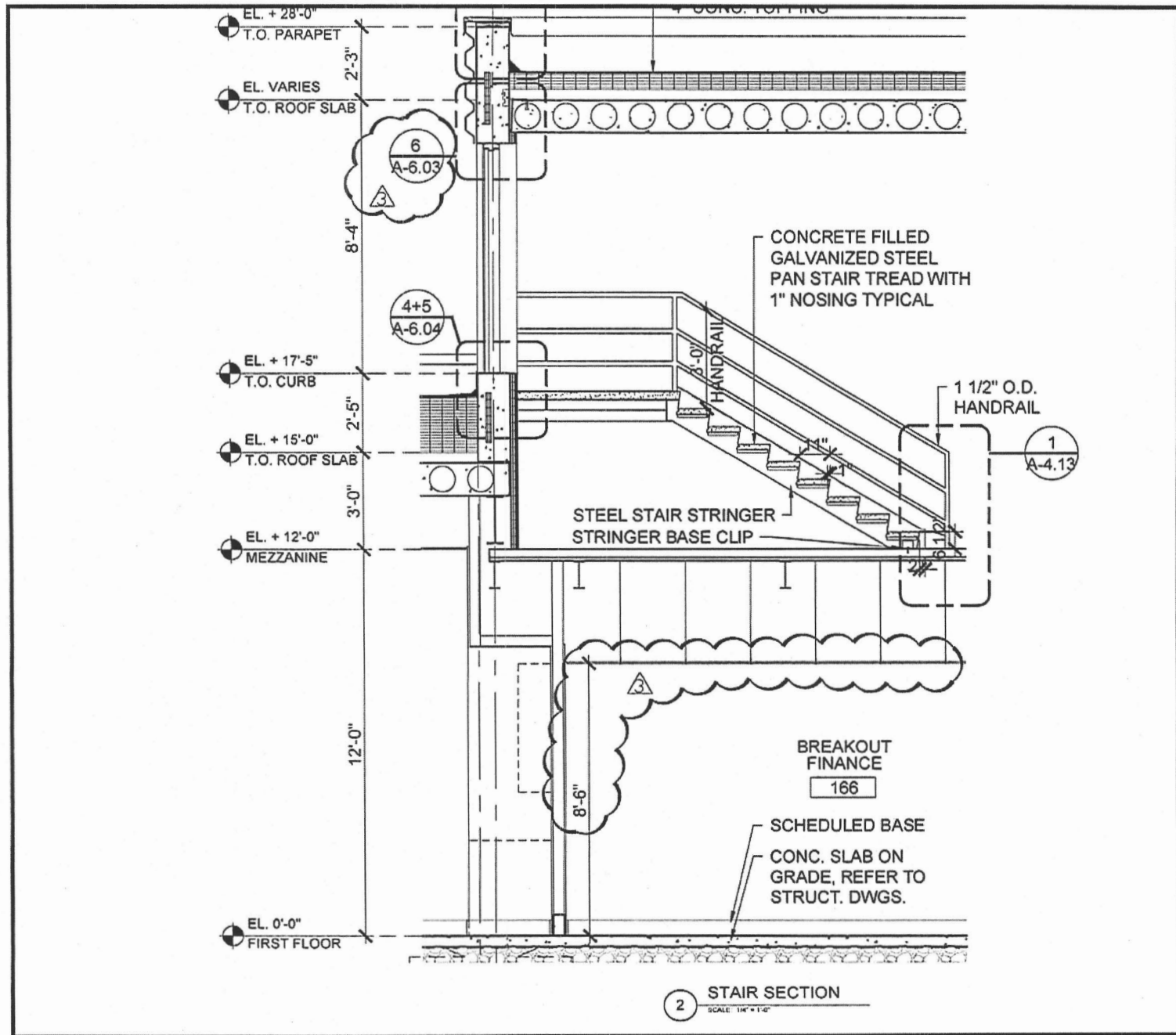
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MISSOURI

- scale: 1/4" = 1'-0"
- drawn: SK
- checked: EM
- approved:
- date: 12/08/2014
- project no.
916

• sheet title:
ENLARGED PLAN
DETAIL

• sheet reference:
A-4.02
A-4.02A




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Group**

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

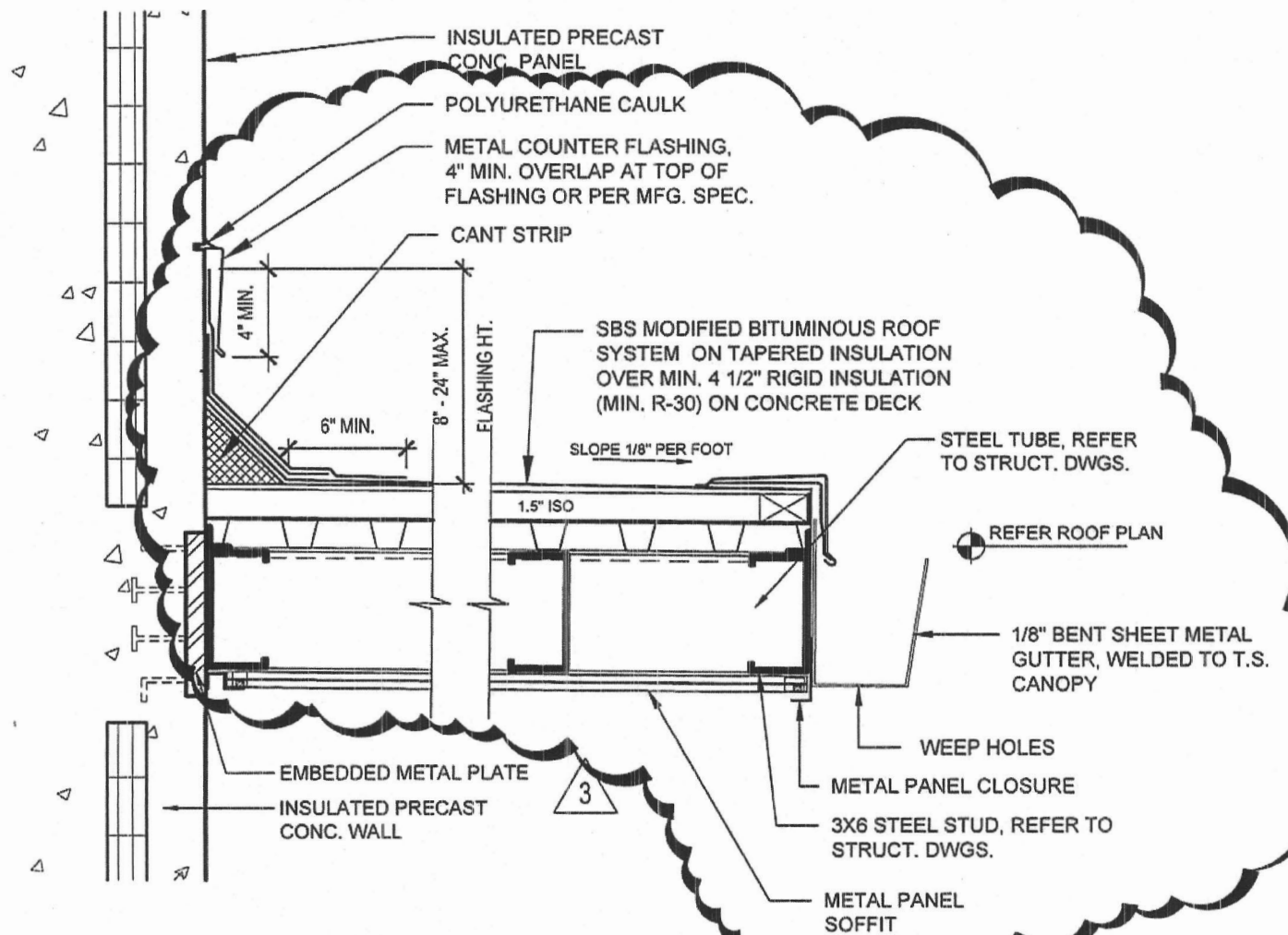
**EMERGENCY
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**BOONE COUNTY
MISSOURI**

- scale: AS NOTED
- drawn: LG
- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no.
916

• sheet title:
**ENL STAIR
PLAN & SECTS**

• sheet reference:
A-4.12
SK A-4.12.1



NOTE:
 1. CANOPY LIGHT FIXTURES TO BE MOUNTED PER PLAN.
 2. THROUGH WALL ELECTRIC CONDUIT TO BE COORDINATED WITH PRECAST PANELS.

3 CANOPY SECTION
 SCALE: 1/2" = 1'-0"



Architects and Planners
 L.S.K. Reeves, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Rabgar, A.I.A., LEED-AP
 333 N. Knowles Ave
 Winter Park, Florida 32789
 P: (407) 647-1906
 Corporate Registration
 Number: 2010083401

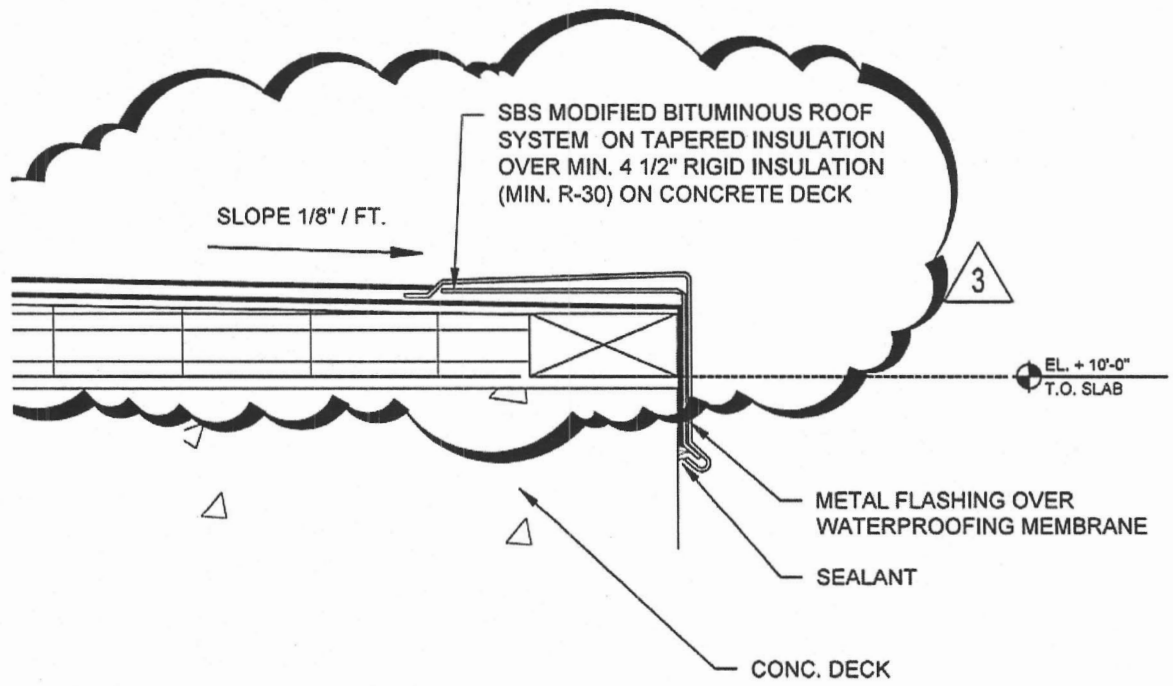
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- drawn: LG
- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no. 916

• sheet title: MISC. & SPEC DETAILS

• sheet reference: A-4.81
 SK A-4.81.1



7 METAL ROOF FLASHING
SCALE: 3/4" = 1'-0"



**Architects
Design
Group**

Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Rasgan, A.I.A., LEED-AP
 333 N. Knowles Ave.
 Winter Park, Florida 32789
 P: (407) 647-1700
 Corporate Registration
 Number: 2010053481

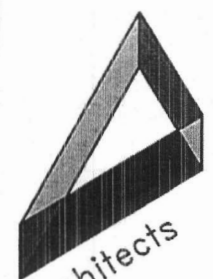
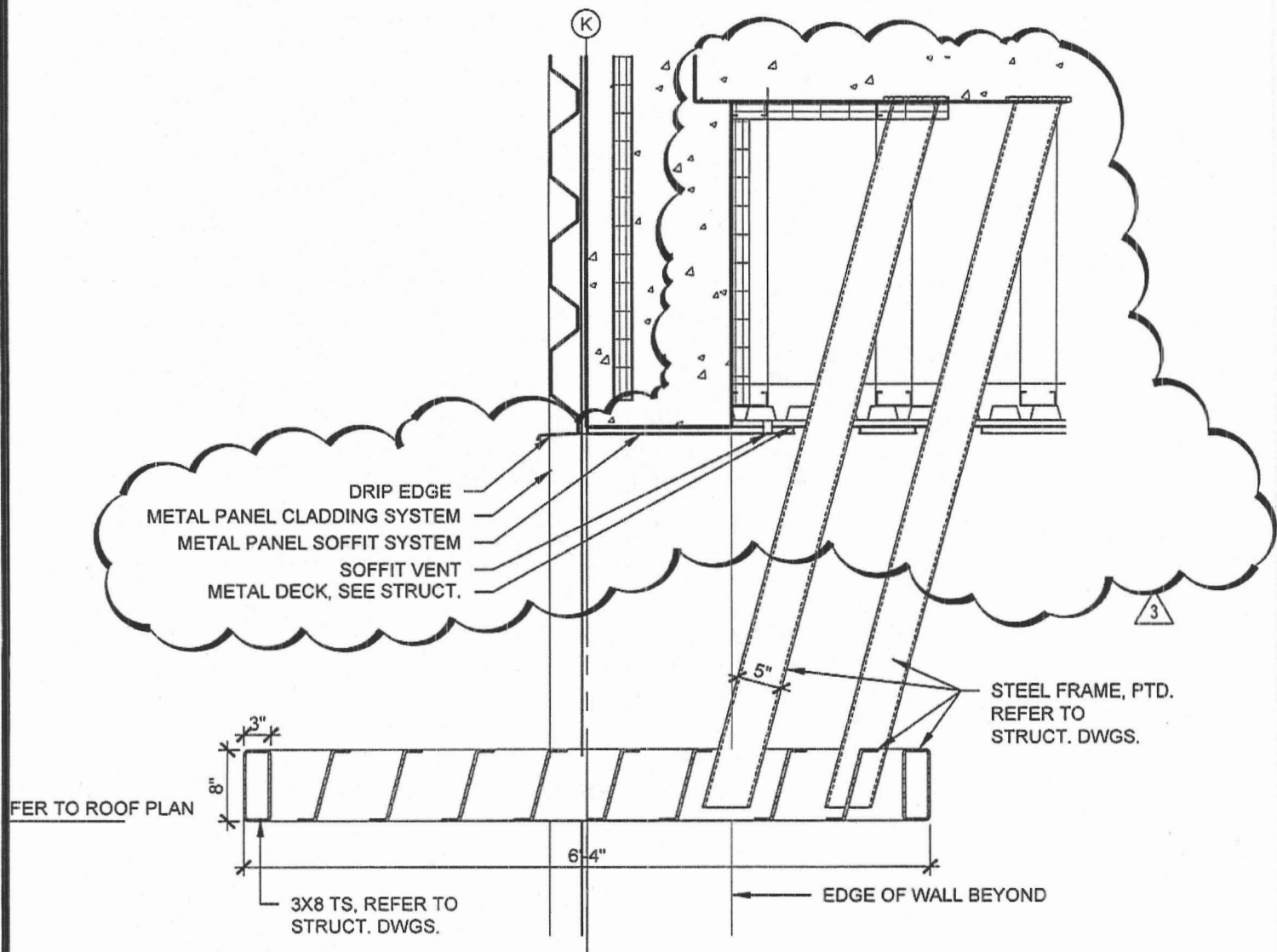
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- drawn: LG
- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no.
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• sheet title:
**MISC. &
SPEC DETAILS**

• sheet reference:
A-4.81
SK A-4.81.2



**Architects
Design
Group**

Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Ratgan, A.I.A., LEED-AP
 333 N. Knowles Ave.
 Water Park, Florida 32789
 P: (407) 647-1796
 Corporate Registration
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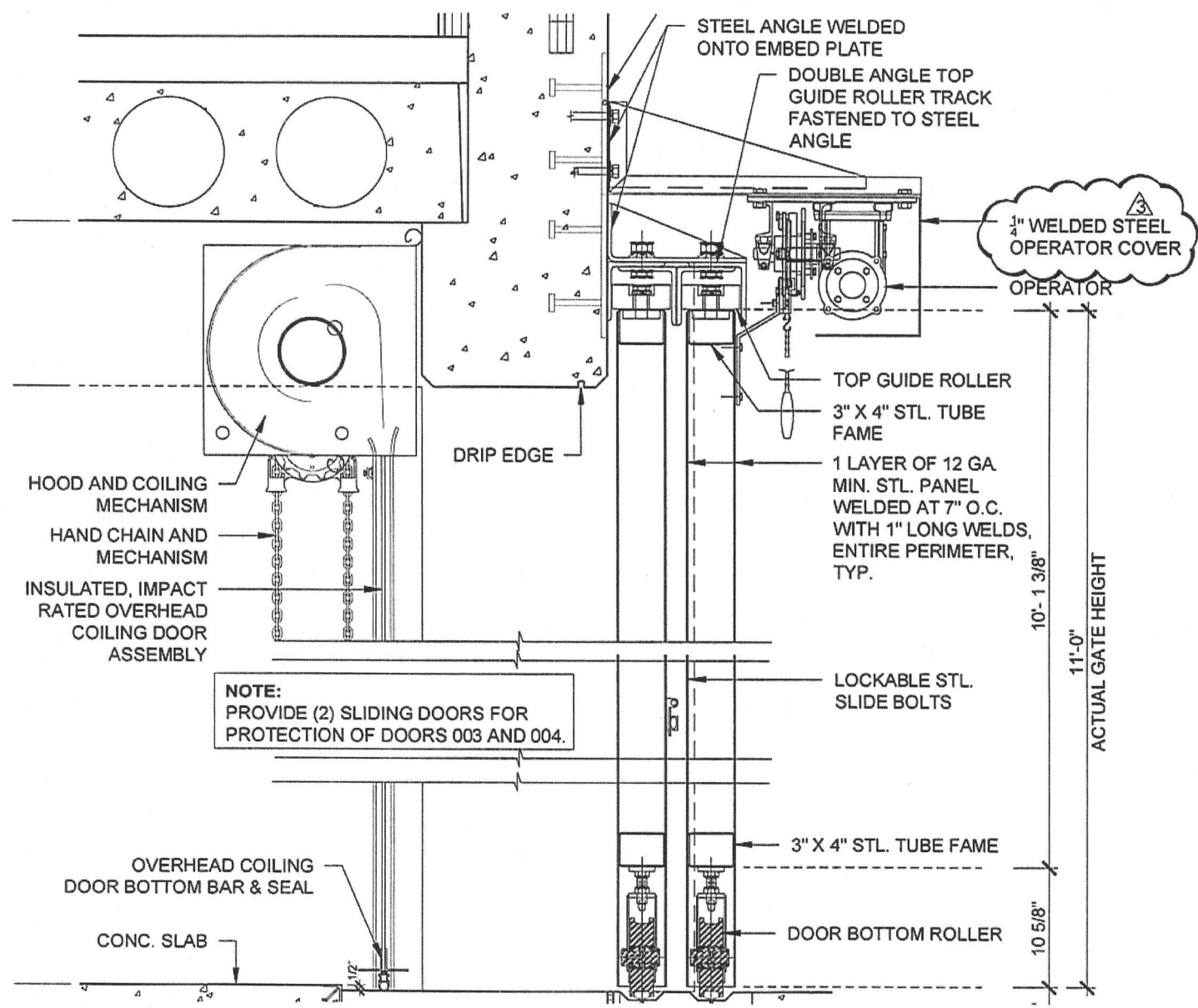
**BOONE COUNTY
MISSOURI**

- scale: AS NOTED
- drawn: LG
- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no. 916

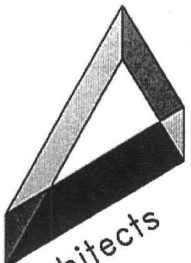
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**MISC. &
SPEC DETAILS**

• sheet reference:
A-4.81
SK A-4.81.3

1 CANOPY SECTION
SCALE: 3/8" = 1'-0"



1 SECTION - SLIDE DOORS
SCALE 1" = 1'-0"



Architects Design Group

Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.J.A.
 Kevin Ratigan, A.I.A., LEED-AP

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

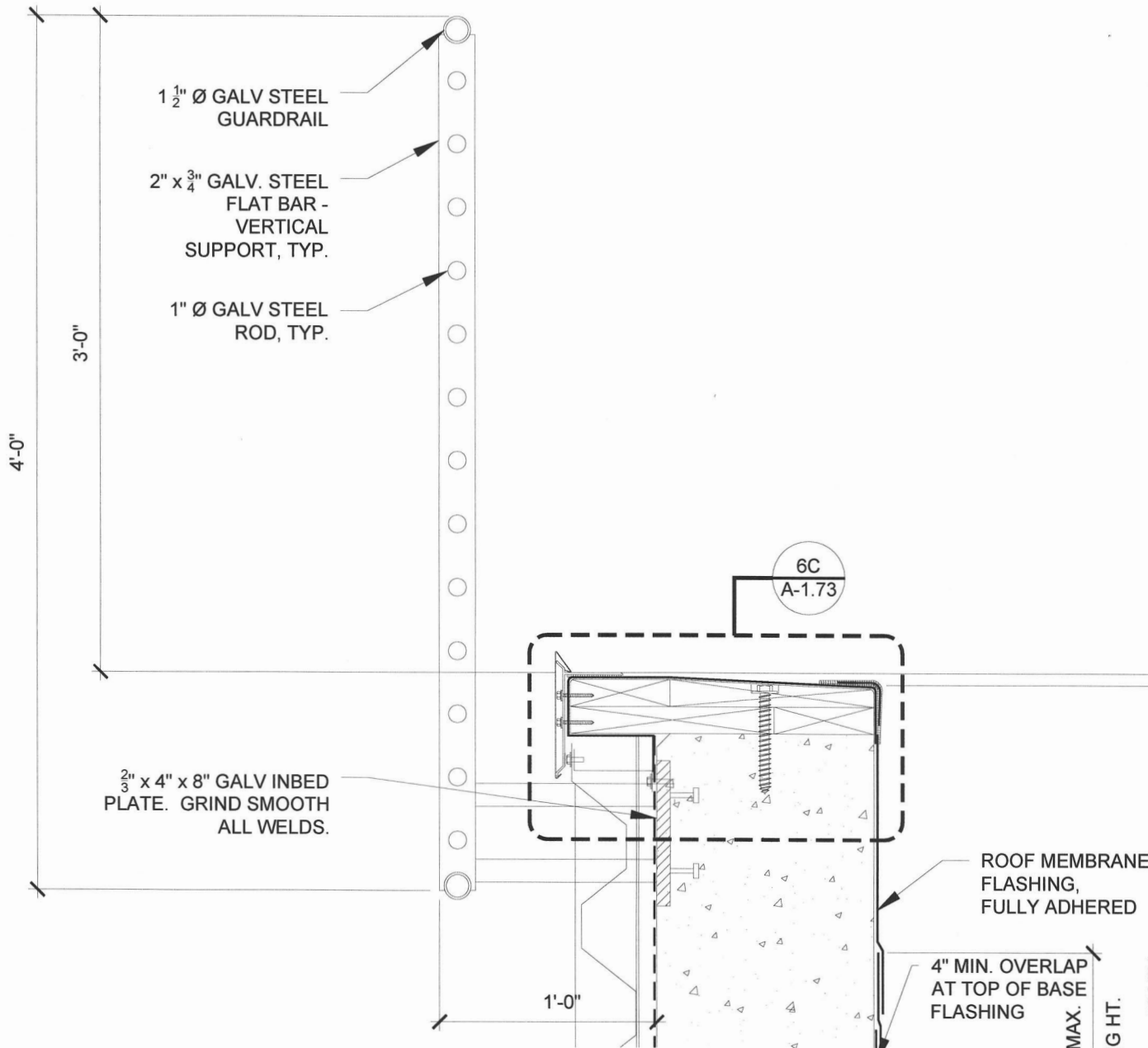
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 Number: 2010003481

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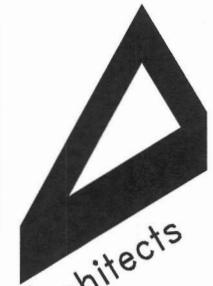
BOONE COUNTY MISSOURI

• scale: AS NOTED
 • drawn: LG
 • checked: SRF
 • approved: SRF
 • date: 12.08.2014
 • project no. 916

• sheet title: MISC. DETAILS IMPACT GATE
 • sheet reference: A-4.82 SK A-4.82.1



3 4 ROOF PARAPET/GUARDRAIL DETAIL
 1 1/2" = 1'-0"



**Architects
 Design
 Group**

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) 847-1706
 Corporate Registration
 Number: 2010003481

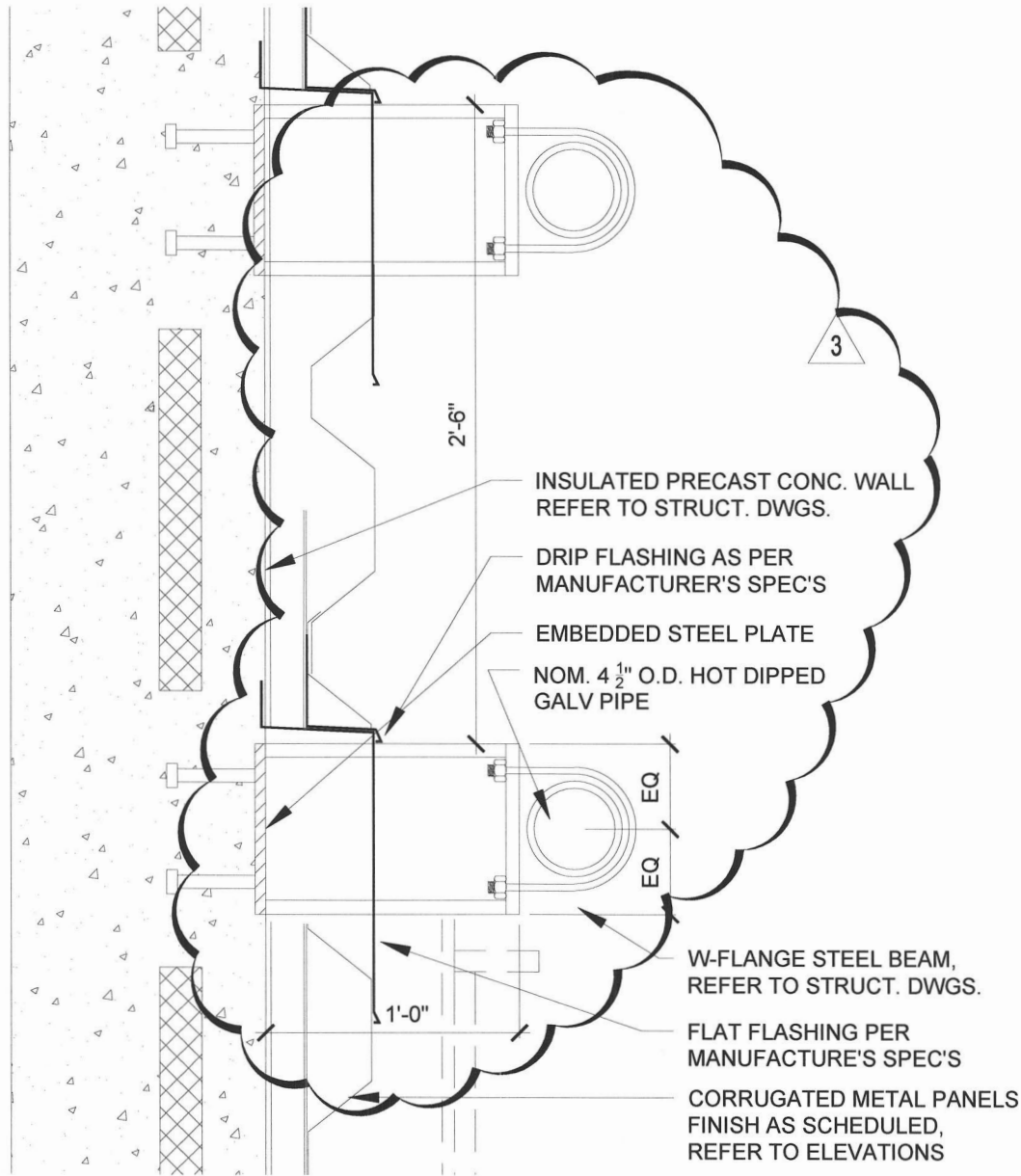
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- scale: AS NOTED
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- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no. 916

• sheet title:
**MISCELLANEOUS
 DETAILS**

• sheet reference:
 A-4.84
 SK A-4.84.1



6 ANTENNA BEAM
SCALE: 3" = 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) 847-1708

Corporate Registration
Number: 2010003461

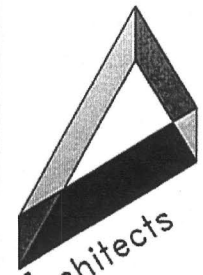
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- drawn: LG
- checked: SRF
- approved: SRF
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• sheet title:
**MISCELLANEOUS
DETAILS**

• sheet reference:
A-4.84
SK A-4.84.2



**Architects
Design
Group**

Architects and Planners

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

333 N. Knowles Ave.
Winter Park, Florida 32780
P: (407) 647-1706

Corporate Registration
Number: 2010003481

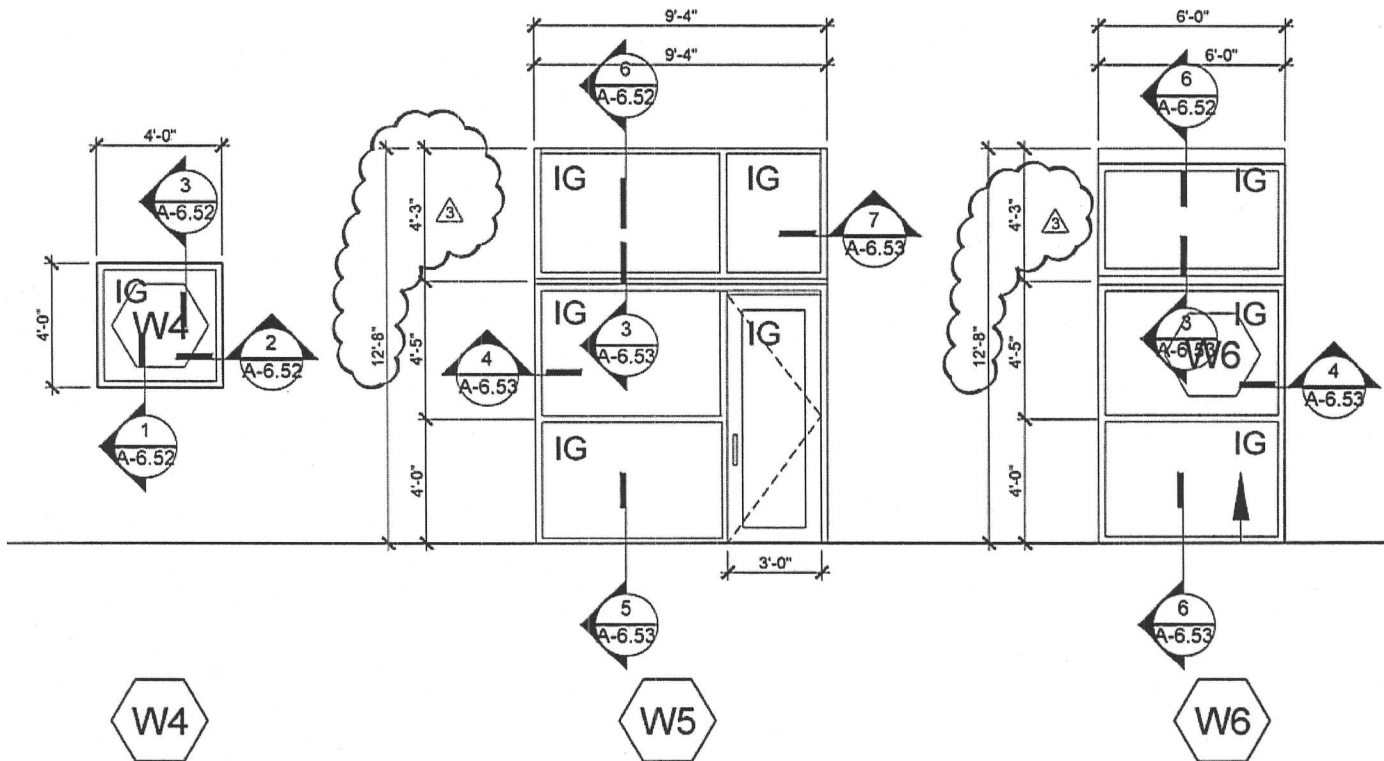
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• sheet title:
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LOUVER SECTIONS**

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A-6.51
SK A-6.51.1

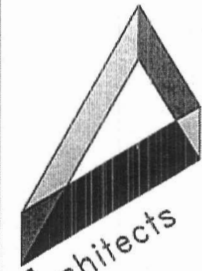


7 REQUIRED



1 EXTERIOR WINDOW SCHEDULE

SCALE: 3/16" = 1'-0"



Architects
Design
Group

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) 947-1700

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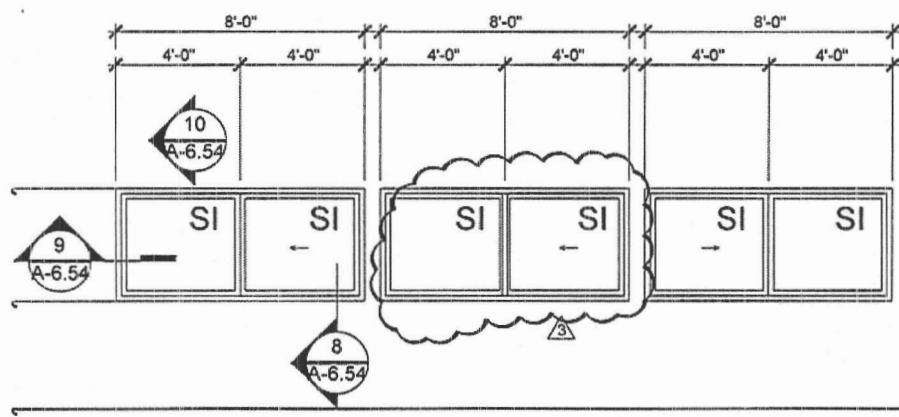
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COMMUNICATIONS
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**BOONE COUNTY
MISSOURI**

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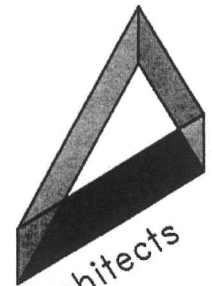
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**WINDOW &
LOUVER SECTIONS**

• sheet reference:
A-6.51
SK A-6.51.2



SF-5

2 INTERIOR WINDOW SCHEDULE
SCALE: 3/16" = 1'-0"



Architects
Design
Group

Architects and Planners

I.S.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 32789
P: (407) 647-1706

Corporate Registration
Number: 2010003461

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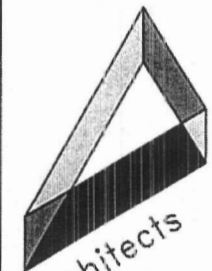
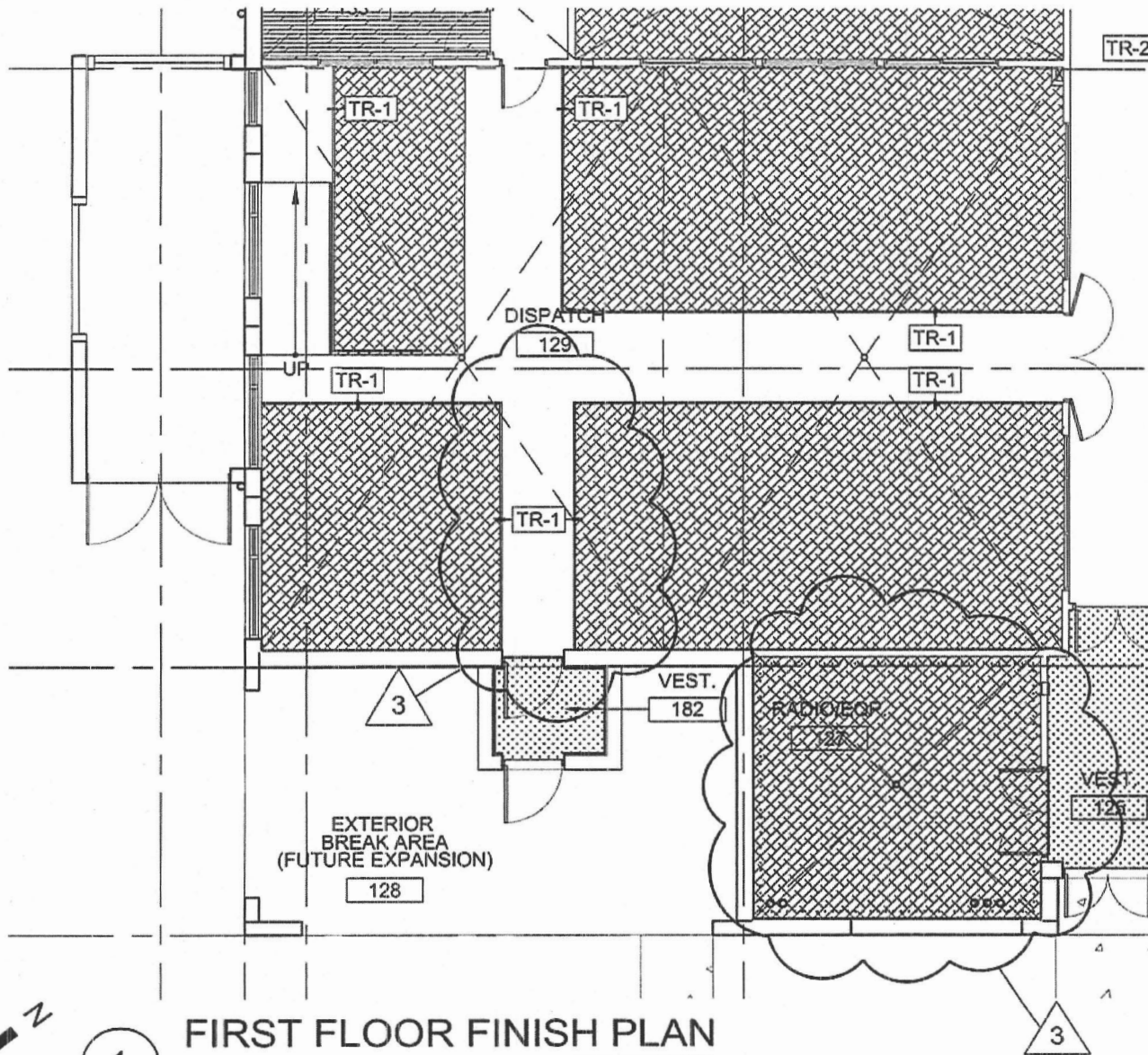
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- checked: SRF
- approved: SRF
- date: 12.08.2014
- project no:
916

• sheet title:
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PLAN

• sheet reference:
ID-1.01
SK ID-1.01.1

NOTE: FURNITURE INDICATED ON THIS PLAN ARE FOR REFERENCE AND
COORDINATION ONLY AND SUBJECT TO CHANGE. FURNITURE TO BE BID
UNDER SEPARATE PACKAGE.

1 FURNITURE PLAN
SCALE: 3/32" = 1'-0"



**Architects
Design
Group**

Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.I.A.
 Kevin Raligan, A.I.A., LEED-AP
 333 N. Knowins Ave.
 Winlar Park, Florida 32789
 P: (407) 647-1706
 Corporate Registration
 Number: 201000346

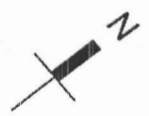
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- scale: 3/32" = 1'-0"
- drawn: SK
- checked: EM
- approved:
- date: 12/08/2014
- project no. 916

• sheet title:
FINISH PLAN

• sheet reference:
ID-1.51
ID-1.51A



1

FIRST FLOOR FINISH PLAN

SCALE: 3/32" = 1'-0"



Architects
Design
Group

Architects and Planners

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

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

Corporate Registration
Number: 2010003481

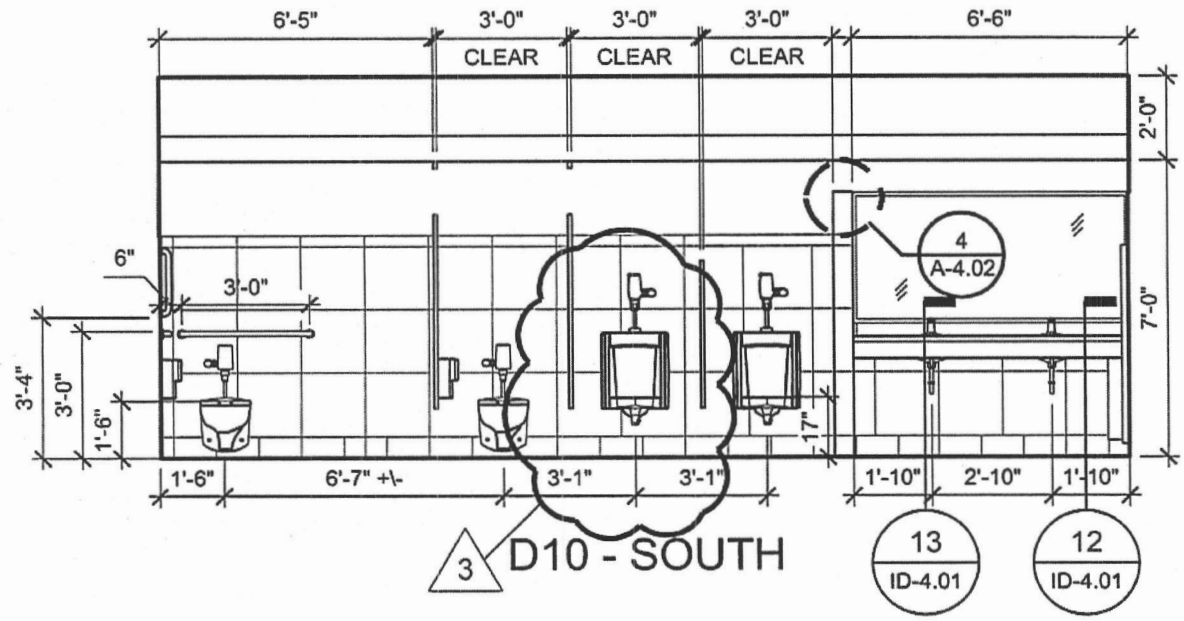
EMERGENCY
COMMUNICATIONS
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MISSOURI

- scale: 1/4" = 1'-0"
- drawn: SK
- checked: EM
- approved:
- date: 12/08/2014
- project no.
916

• sheet title:
INTERIOR
ELEVATIONS

• sheet reference:
ID-2.01
ID-2.01A



2

INTERIOR ELEVATIONS - MEN'S #164

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



Architects and Planners
 I.S.K. Reeves V, F.A.I.A.
 Ian A. Reeves, A.J.A.
 Kevin Raigan, A.J.A., LEED-AP
 333 N. Knowles Ave.
 Winter Park, Florida 32789
 P: (407) 647-1706
 Corporate Registration
 Number: 261000381

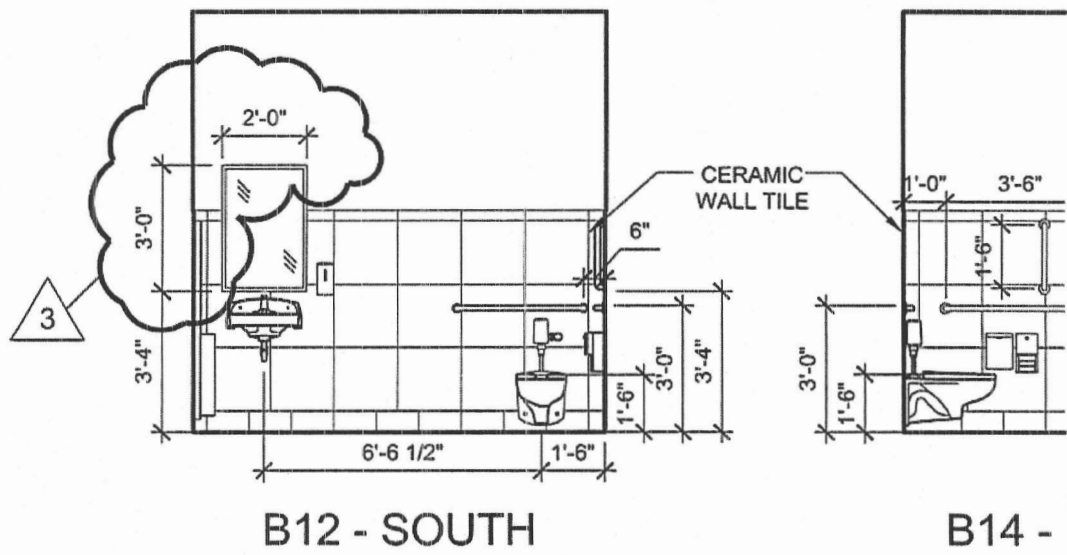
**EMERGENCY
 COMMUNICATIONS
 CENTER**

**BOONE COUNTY
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- scale: 1/4" = 1'-0"
- drawn: SK
- checked: EM
- approved:
- date: 12/03/2014
- project no.
916

• sheet title:
**INTERIOR
 ELEVATIONS**

• sheet reference:
 ID-2.01
 ID-2.01B



3

INTERIOR ELEVATIONS - PUBLIC RESTROOM #104
 SCALE: 1/4" = 1'-0"



Architects and Planners
 L.S.K. Reeves V, F.A.J.A.
 Ian A. Reeves, A.J.A.
 Kevin Raigjan, A.J.A., LEED-AP
 333 N. Knowles Ave.
 Winter Park, Florida 32789
 P: (407) 647-1706
 Corporate Registration
 Number: 20110003481

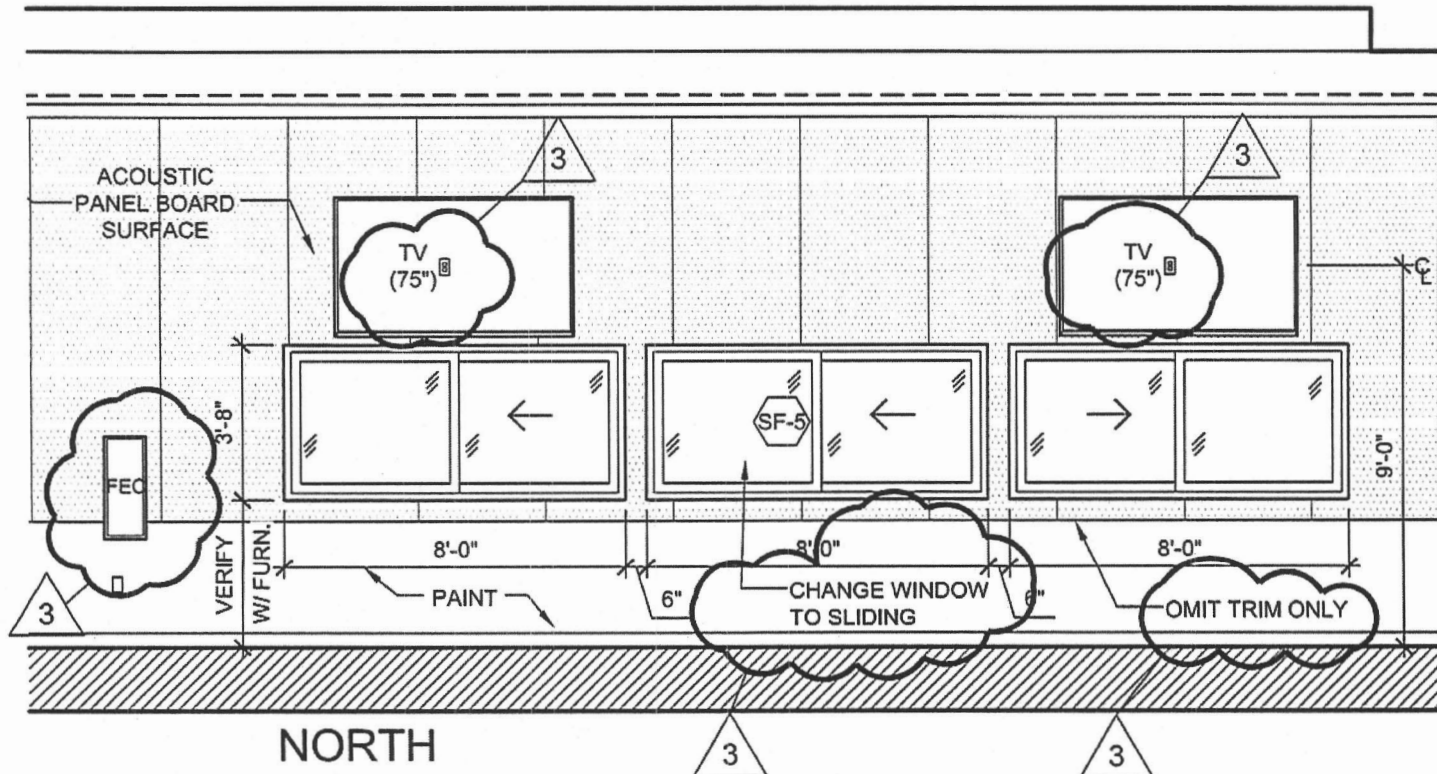
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 COMMUNICATIONS
 CENTER**

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 MISSOURI**

- scale: 1/4" = 1'-0"
- drawn: SK
- checked: EM
- approved:
- date: 12/08/2014
- project no. 916

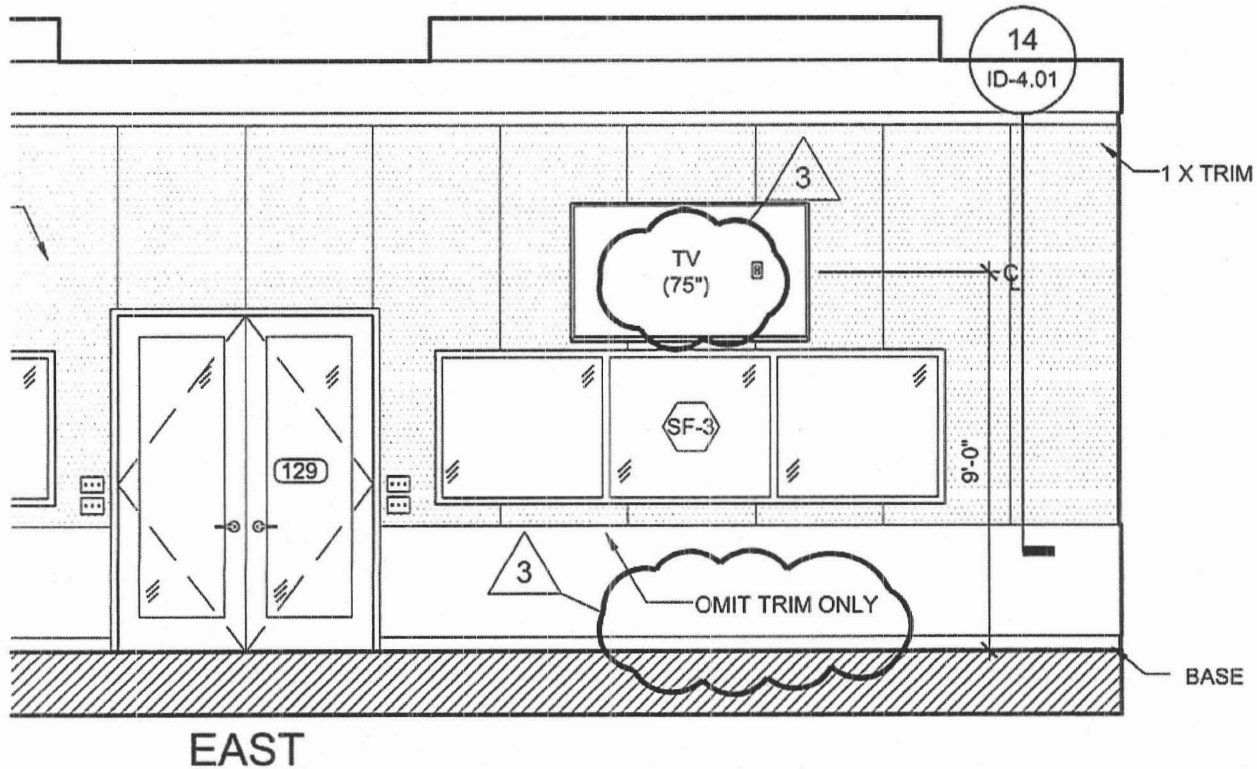
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**INTERIOR
 ELEVATIONS**

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 ID-2.02A



NORTH

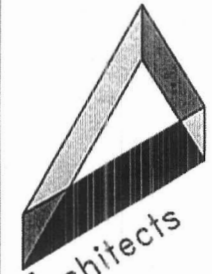
1 INTERIOR ELEVATIONS - DISPATCH #129
 SCALE: 1/4" = 1'-0"



1

INTERIOR ELEVATIONS - DISPATCH #129

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



Architects
Design
Group

Architects and Planners

I.S.K. Reeves V, F.A.I.A.
Ian A. Roover, 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: 2010063481

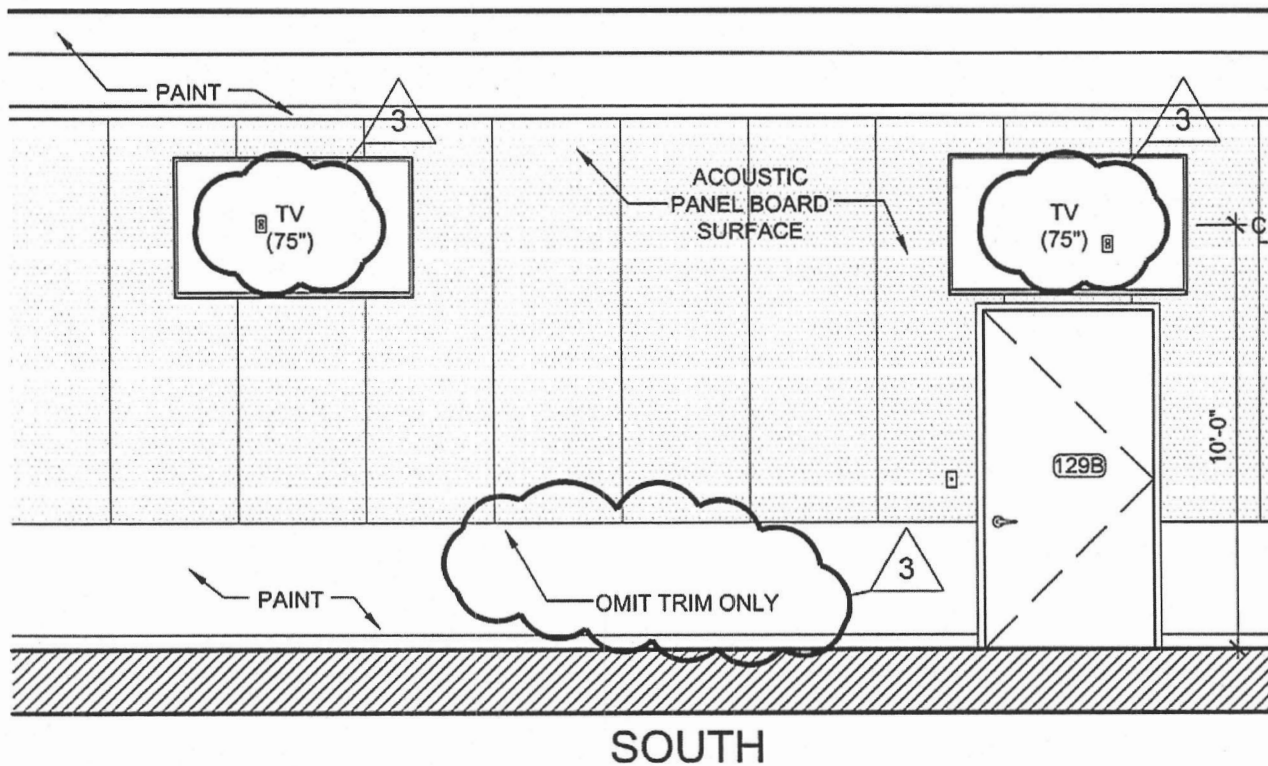
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COMMUNICATIONS
CENTER

BOONE COUNTY
MISSOURI

- scale: 1/4" = 1'-0"
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- checked: EM
- approved:
- date: 12/08/2014
- project no.
916

• sheet title:
INTERIOR
ELEVATIONS

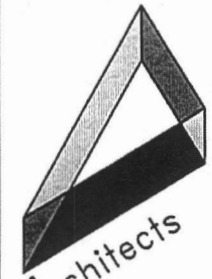
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ID-2.02
ID-2.02B



1

INTERIOR ELEVATIONS - DISPATCH #129

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



Architects
Design
Group

Architects and Planners

I.S.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 32789
P: (407) 647-1706

Corporate Registration
Number: 2010003481

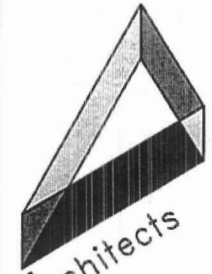
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COMMUNICATIONS
CENTER

BOONE COUNTY
MISSOURI

- scale: 1/4" = 1'-0"
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- checked: EM
- approved:
- date: 12/08/2014
- project no. 916

• sheet title:
INTERIOR
ELEVATIONS

• sheet reference:
ID-2.02
ID-2.02C



**Architects
Design
Group**

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) 647-1705
Corporate Registration
Number: 2010203481

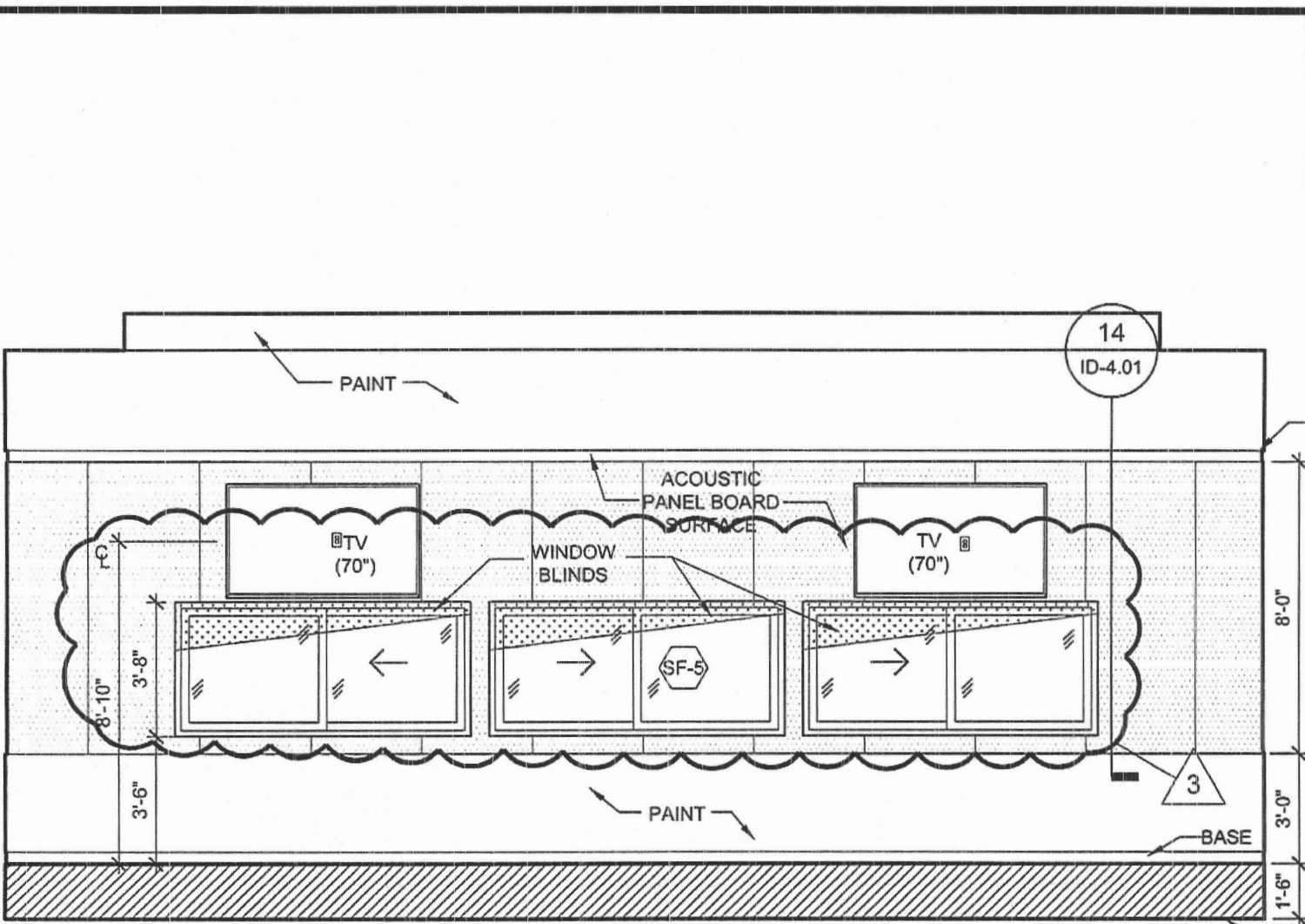
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COMMUNICATIONS
CENTER**

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MISSOURI**

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- drawn: SK
- checked: EM
- approved:
- date: 12/08/2014
- project no. 916

• sheet title:
**INTERIOR
ELEVATIONS**

• sheet reference:
ID-2.03
ID-2.03A



SOUTH

1

INTERIOR ELEVATIONS - TRAINING #132

SCALE: 1/4" = 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 32780
 P: (407) 647-1706
 Corporate Registration
 Number: 2010003481

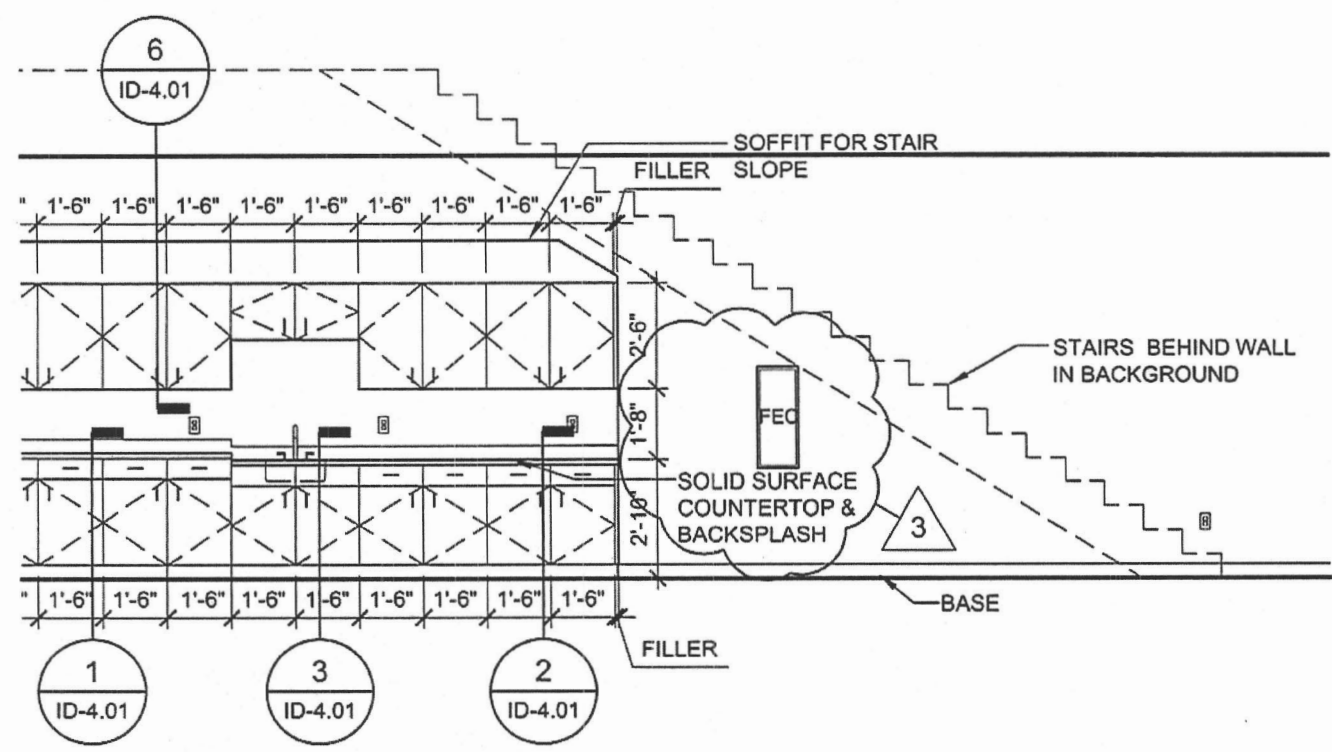
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BOONE COUNTY MISSOURI

- scale: 1/4" = 1'-0"
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- approved:
- date: 12/08/2014
- project no. 916

• sheet title:
INTERIOR ELEVATIONS

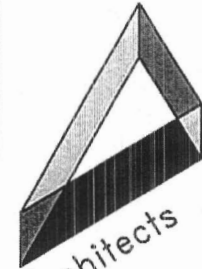
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 ID-2.04A



3

INTERIOR ELEVATIONS - BREAK AREA #116

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



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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 32780
P: (407) 647-1706

Corporate Registration
Number: 2010003481

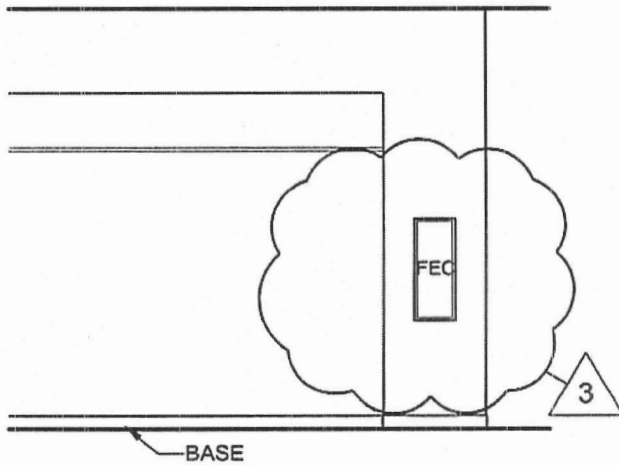
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COMMUNICATIONS
CENTER

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- scale: 1/4" = 1'-0"
- drawn: SK
- checked: EM
- approved:
- date: 12/08/2014
- project no.
916

• sheet title:
INTERIOR
ELEVATIONS

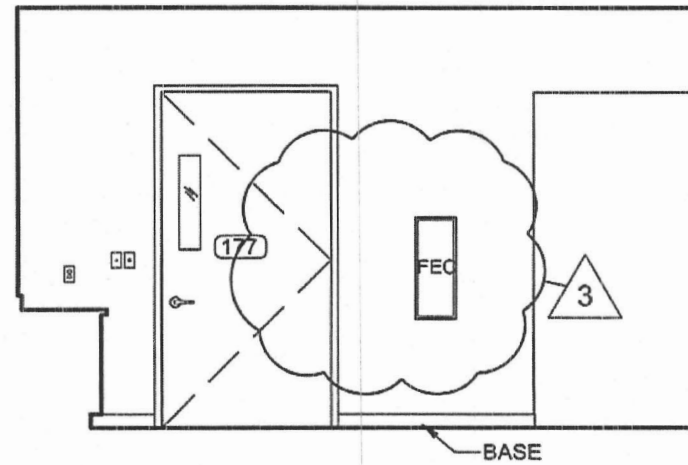
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ID-2.05A



INTERIOR ELEVATIONS -
COAT RACK

5

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

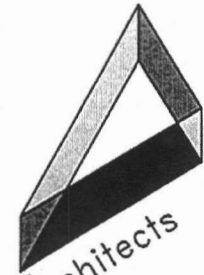


WEST

INTERIOR ELEVATIONS -
CENTRAL KITCHEN #177 A

3

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



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I.S.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 32789
P: (407) 647-1706

Corporate Registration
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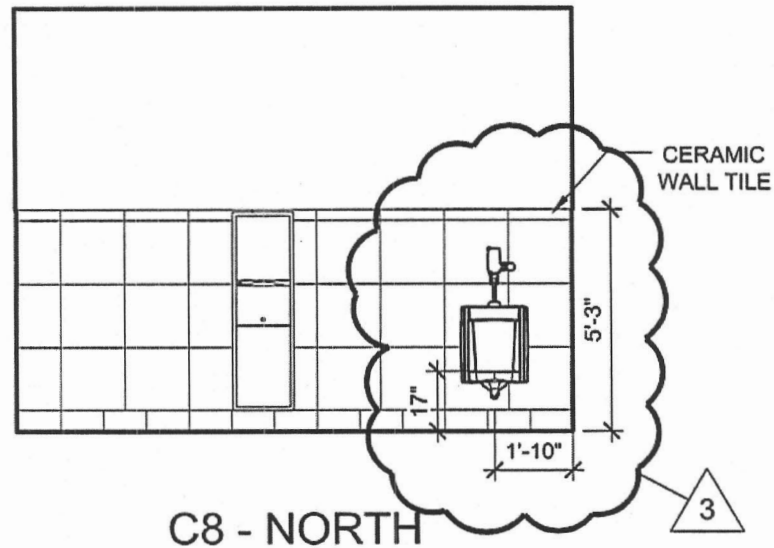
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COMMUNICATIONS
CENTER

BOONE COUNTY
MISSOURI

- scale: 1/4" = 1'-0"
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- date: 12/08/2014
- project no.
916

• sheet title:
INTERIOR
ELEVATIONS

• sheet reference:
ID-2.06
ID-2.06A



C8 - NORTH

6

INTERIOR ELEVATIONS - MEN'S #172

SCALE: 1/4" = 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

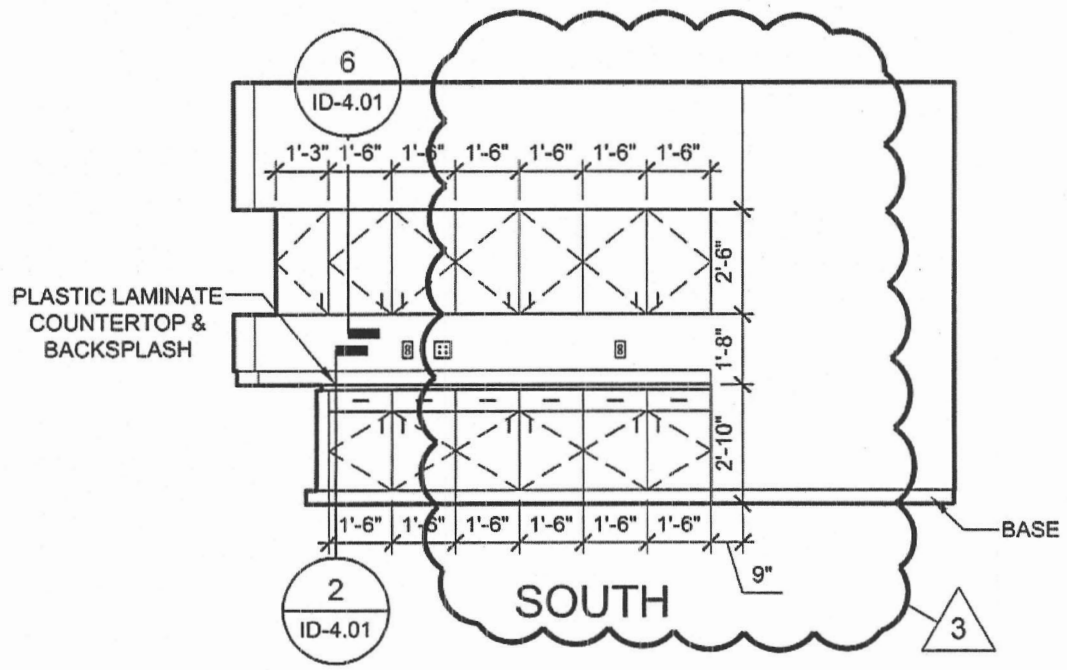
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**BOONE COUNTY
 MISSOURI**

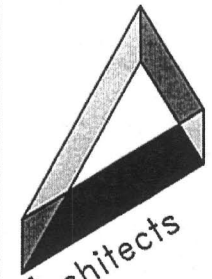
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- date: 12/08/2014
- project no. 916

• sheet title:
**INTERIOR
 ELEVATIONS**

• sheet reference:
 ID-2.07
 ID-2.07A



3 INTERIOR ELEVATIONS - COPY CENTER #146
 SCALE: 1/4" = 1'-0"



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Design
Group**

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

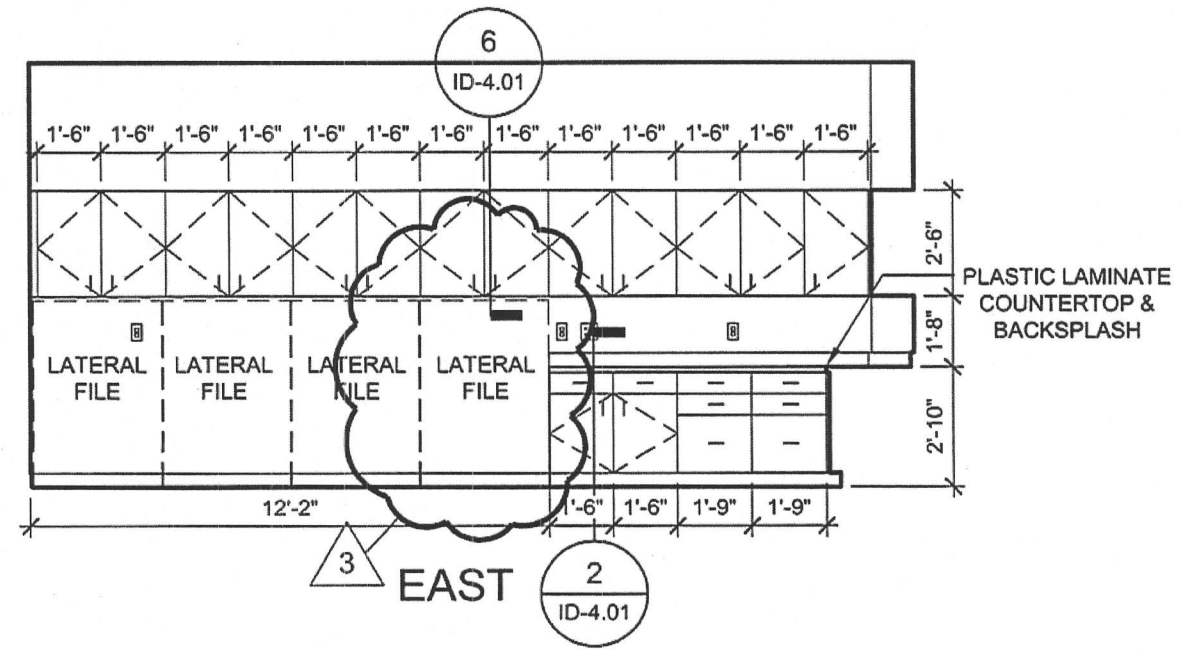
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COMMUNICATIONS
CENTER**

**BOONE COUNTY
MISSOURI**

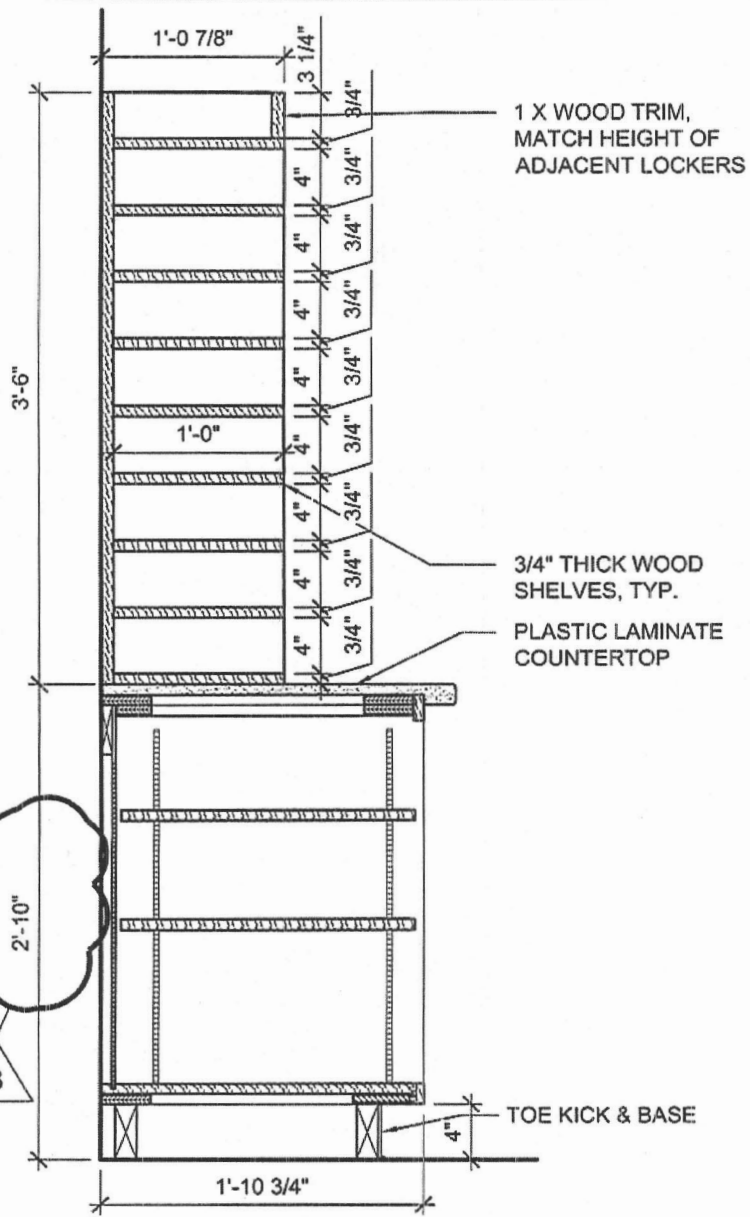
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ELEVATIONS**

• sheet reference:
ID-2.07
ID-2.07B



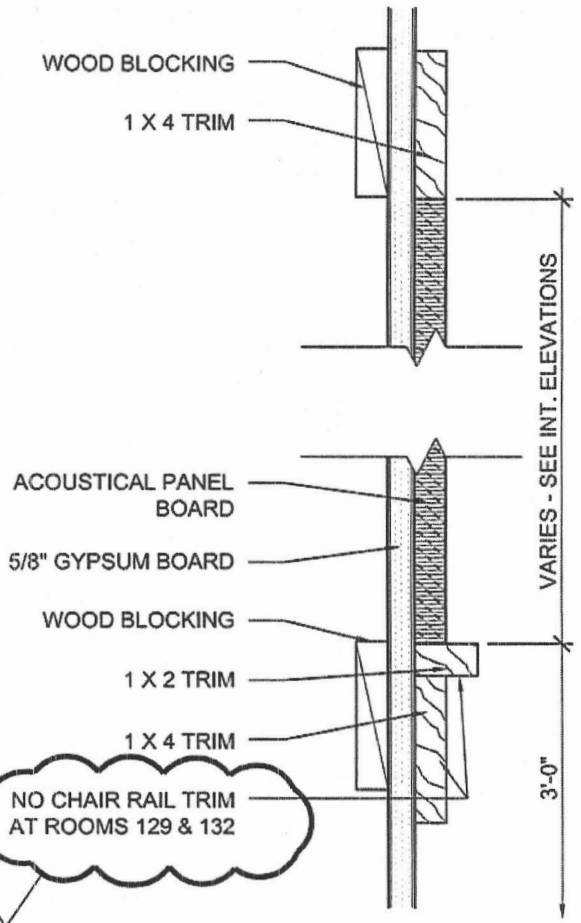
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 SCALE: 1/4" = 1'-0"



BASE CABINET W/ MAILBOXES

SCALE: 1" = 1'-0"

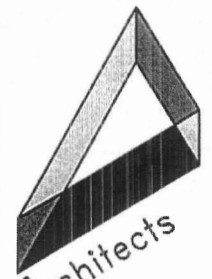
15



CHAIR RAIL & ACOUST. PANEL DETAIL

SCALE: 3" = 1'-0"

14



**Architects
Design
Group**

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: 2910000481

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COMMUNICATIONS
CENTER**

**BOONE COUNTY
MISSOURI**

- scale: 1" = 1'-0"
- drawn: SK
- checked: EM
- approved:
- date: 12/08/2014
- project no. 916

• sheet title:
**INTERIOR MILLWORK
DETAILS**

• sheet reference:
ID-4.01
ID-4.01A

VARIES - SEE INT. ELEVATIONS

3'-0"

SECTION 26 0548

ELECTRICAL CONDUIT AND EQUIPMENT VIBRATION AND SEISMIC CONTROLS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Equipment support bases.
- B. Vibration isolators.
- C. Seismic snubber assemblies.
- D. Seismic restraints for suspended components and equipment.

1.02 RELATED REQUIREMENTS

1.03 REFERENCE STANDARDS

- A. ASCE 7 - Minimum Design Loads for Buildings and Other Structures; 2011.
- B. FEMA 412 - Installing Seismic Restraints for Mechanical Equipment; 2002.
- C. FEMA 413 - Installing Seismic Restraints for Electrical Equipment; 2004. .
- D. FEMA 414 - Installing Seismic Restraints for Duct and conduit; 2004.
- E. FEMA E-74 - Reducing the Risks of Nonstructural Earthquake Damage: A Practical Guide; 2011.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data:
 - 1. Provide manufacturer's product literature documenting compliance with PART 2 PRODUCTS.
 - 2. Include seismic rating documentation for each isolator and restraint component accounting for horizontal, vertical, and combined loads.
- C. Shop Drawings:
 - 1. Provide schedule of vibration isolator type with location and load on each.
 - 2. Fully dimensioned fabrication drawings and installation details for vibration isolation bases, member sizes, attachments to isolators, and supported equipment.
 - 3. Include auxiliary motor slide bases and rails, base weights, inertia bases, concrete weights, equipment static loads, support points, vibration isolators, and detailed layout of isolator location and orientation with static and dynamic load on each isolator.
 - 4. Include selections from prescriptive design tables that indicate compliance with the applicable building code and the vibration isolator manufacturer's requirements.
 - 5. Clearly indicate the load and capacity assumptions selected. Include copies of any calculations.
 - 6. Include the calculations that indicate compliance with the applicable building code for seismic controls and the vibration isolator manufacturer's requirements.

1.05 QUALITY ASSURANCE

- A. Perform design and installation in accordance with applicable codes.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Amber/Booth: www.thevmcgroup.com.
- B. Hilti Inc.: www.hilti.com.
- C. Kinetics Noise Control, Inc: www.kineticsnoise.com.
- D. Mason Industries: www.mason-ind.com.
- E. Unistrut; Tyco International, Ltd.: www.unistrut.com.

F. Vibration Eliminator Co., Inc.: www.veco-nyc.com.

2.02 PERFORMANCE REQUIREMENTS

A. General:

1. All vibration isolators, base frames and inertia bases to conform to all uniform deflection and stability requirements under all operating loads.
2. Steel springs to function without undue stress or overloading.
3. Steel springs to operate in the linear portion of the load versus deflection curve over deflection range of not less than 50 percent above specified deflection.
4. Lateral to vertical stiffness ratio to not exceed 0.08 with spring deflection at minimum 75 percent of specified deflection.
5. All equipment mounted on vibration isolated bases to have minimum operating clearance of 2 inches (50 mm) between the base and floor or support beneath unless noted otherwise.

2.03 VIBRATION ISOLATORS

A. Non-Seismic Type:

1. Elastomeric Mounts:
 - a. Material: Oil, ozone, and oxidant resistant compounds.
 - b. Assembly: Encapsulated load transfer plate bolted to equipment and base plate with anchor hole bolted to supporting structure.
2. Steel Springs:
 - a. Assembly: Freestanding, laterally stable without housing.
 - b. Leveling Device: Rigidly connected to equipment or frame.
3. Restrained Steel Springs:
 - a. Housing: Rigid blocking during rigging prevents equipment installed and operating height from changing during temporary weight reduction.
 - b. Equipment Wind Loading: Adequate means for fastening isolator top to equipment and isolator base plate to supporting structure.
4. Elastomeric Hangers:
 - a. Housing: Steel construction containing elastomeric isolation element to prevent rod contact with housing and short-circuiting of isolating function.
 - b. Incorporate steel load distribution plate sandwiching elastomeric element to housing.
5. Spring Hanger:
 - a. Housing: Steel construction containing stable steel spring and integral elastomeric element preventing metal to metal contact.
 - b. Bottom Opening: Sized to allow plus/minus 15 degrees rod misalignment.
6. Combination Elastomeric-Spring Hanger:
 - a. Housing: Steel construction containing stable steel spring with elastomeric element in series isolating upper connection of hanger box to building structure.
 - b. Bottom Opening: Sized to allow plus/minus 15 degrees rod misalignment.

B. Seismic Type:

1. General Requirements for Restraint Components: Rated strengths, features, and application requirements shall be as defined in reports by [an evaluation service member of ICC-ES or by an agency acceptable to authorities having jurisdiction].
 - a. Structural Safety Factor: Allowable strength in tension, shear, and pullout force of components shall be at least four times the maximum seismic forces to which they will be subjected.
2. Channel Support System: MFMA-3, shop- or field-fabricated support assembly made of slotted steel channels with accessories for attachment to braced component at one end and to building structure at the other end and other matching components and with corrosion-resistant coating; and rated in tension, compression, and torsion forces.

3. Restraint Cables: ASTM A 603 galvanized-steel cables with end connections made of steel assemblies with thimbles, brackets, swivels, and bolts designed for restraining cable service; and with a minimum of two clamping bolts for cable engagement.
4. Hanger Rod Stiffener: [Steel tube or steel slotted-support-system sleeve with internally bolted connections] [Reinforcing steel angle clamped] to hanger rod. Do not weld stiffeners to rods.
5. Bushings for Floor-Mounted Equipment Anchor: Neoprene bushings designed for rigid equipment mountings, and matched to type and size of anchors and studs.
6. Bushing Assemblies for Wall-Mounted Equipment Anchorage: Assemblies of neoprene elements and steel sleeves designed for rigid equipment mountings, and matched to type and size of attachment devices.
7. Resilient Isolation Washers and Bushings: One-piece, molded, oil- and water-resistant neoprene, with a flat washer face.
8. Mechanical Anchor: Drilled-in and stud-wedge or female-wedge type in zinc-coated steel for interior applications and stainless steel for exterior applications. Select anchors with strength required for anchor and as tested according to ASTM E 488. Minimum length of eight times diameter.
9. Adhesive Anchor: Drilled-in and capsule anchor system containing polyvinyl or urethane methacrylate-based resin and accelerator, or injected polymer or hybrid mortar adhesive. Provide anchor bolts and hardware with zinc-coated steel for interior applications and stainless steel for exterior applications. Select anchor bolts with strength required for anchor and as tested according to ASTM E 488.
10. Coil Springs Consisting of Single Elements:
 - a. Housing: Manufactured from cast iron material.
 - b. Ductile Material: Designed and rated for seismic applications.
 - c. Spring: Restrained by housing without significant degradation of vibration isolation capabilities during normal equipment operating conditions.
 - d. Resilient Snubbing Grommet System: Incorporated and designed with clearances of no more than 0.25 inch (6 mm) in any direction preventing direct metal-to-metal contact between supported member and fixed restraint housing.
 - e. Resilient Pad: Located in series with spring.
 - f. Coil Springs: Color coded elements to have a lateral stiffness greater than 0.8 times the rated vertical stiffness with 50 percent overload capacity.
 - g. Finish: Suitable for the application.
11. All Directional Elastomeric:
 - a. Material: Molded from oil, ozone, and oxidant resistant compounds.
 - b. Operating Parameters: Designed to operate within the isolator strain limits providing maximum performance and service life.
 - c. Attachment Method: Encapsulated load transfer plate bolted to equipment and base plate with anchor hole bolted to supporting structure.
 - d. Rating: Cast iron and aluminum housings rated for seismic restraint applications.
 - e. Minimum Operating Static Deflections: Deflections indicated in project documents are not to exceed published load capacities.

2.04 SEISMIC SNUBBER ASSEMBLIES

- A. Comply with:
 1. ASHRAE Handbook - HVAC Applications.
 2. FEMA 412.
 3. FEMA 413.
 4. FEMA 414.
 5. FEMA E-74.
 6. SMACNA 1981.
- B. All Directional External:

1. Application: Minimum three (3) snubbers are required for each equipment installation, oriented properly to restrain isolated equipment in all directions.
 2. Construction: Interlocking steel construction attached to the building structure and equipment in a manner consistent with anticipated design loads.
 3. Performance: Equipment movement at each snubber location limited to a maximum of 0.25 inches (6 mm) in any direction without significantly degrading the vibration isolation capability of the isolator during normal operating conditions.
 4. Resilient Pad: Minimum 0.25 inch (6 mm) thick cushions any impact and prevents metal-to-metal contact.
- C. Lateral External:
1. Application: Minimum three (3) snubbers are required for each stable equipment installation, oriented properly to restrain isolated equipment in all lateral directions where uplift forces are zero or addressed by other restraints.
 2. Construction: Steel construction attached to the building structure and equipment in a manner consistent with anticipated design loads.
 3. Performance: Equipment movement at each snubber location limited to a maximum of 0.25 inches (6 mm) in any direction without significantly degrading the vibration isolation capability of the isolator during normal operating conditions.
 4. Resilient Pad: Minimum 0.25 inch (6 mm) thick cushions any impact and prevents metal-to-metal contact.
- D. Omni Directional External:
1. Application: Minimum four (4) snubbers are required for each stable equipment installation, oriented properly to restrain isolated equipment in all lateral directions.
 2. Construction: Steel construction attached to the building structure and equipment in a manner consistent with anticipated design loads.
 3. Performance: Equipment movement at each snubber location limited to a maximum of 0.25 inches (6 mm) in any direction without significantly degrading the vibration isolation capability of the isolator during normal operating conditions.
 4. Resilient Pad: Minimum 0.25 inch (6 mm) thick cushions any impact and prevents metal-to-metal contact.
- E. Horizontal Single Axis External:
1. Application: Minimum four (4) snubbers are required for each stable equipment installation, oriented properly to restrain isolated equipment in all lateral directions where uplift forces are zero or addressed by other restraints.
 2. Construction: Steel construction attached to the building structure and equipment in a manner consistent with anticipated design loads.
 3. Performance: Equipment movement at each snubber location limited to a maximum of 0.25 inches (6 mm) in any direction without significantly degrading the vibration isolation capability of the isolator during normal operating conditions.
 4. Resilient Pad: Minimum 0.25 inch (6 mm) thick cushions any impact and prevents metal-to-metal contact.

2.05 SEISMIC RESTRAINTS FOR SUSPENDED COMPONENTS AND EQUIPMENT

- A. Comply with:
1. ASHRAE Handbook - HVAC Applications.
 2. FEMA 412.
 3. FEMA 413.
 4. FEMA 414.
 5. FEMA E-74.
 6. SMACNA 1981.
- B. Cable Restraints:
1. Wire Rope: Steel wire strand cables sized to resist seismic loads in all lateral directions.
 2. Protective Thimbles: Eliminates potential for dynamic cable wear and strand breakage.

3. Size: Based on the lesser of cable capacity or anchor load taking into account bracket geometry.
 4. Connections:
 - a. Use overlapping wire rope U clips, cable clamping bolts, swaged sleeves or seismically rated tool-less wedge insert lock connectors.
 - b. Internally brace clevis hanger bracket cross bolt to prevent deformation.
 5. Vertical Suspension Rods: Attach required bracing of sufficient strength to prevent rod buckling from vertical compression forces utilizing series of attachment clips.
- C. Rigid Restraints:
1. Structural Element: Sized to resist seismic loads in all lateral directions and carry both compressive and tensile loading.
 2. Size: Based on the lesser of cable capacity or anchor load taking into account bracket geometry.
 3. Connections: Internally brace clevis hanger bracket cross bolt to prevent deformation.
 4. Static Support System: Anchorage capable of carrying additional tension loads generated by the vertical component of the rigid brace compression which is additive to any static load requirements on the system.
 5. Vertical Suspension Rods: Attached required bracing of sufficient strength to prevent rod buckling from vertical compression forces utilizing series of attachment clips.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine areas and equipment to receive vibration isolation and seismic-control devices for compliance with requirements for installation tolerances and other conditions affecting performance.
- B. Examine roughing-in of reinforcement and cast-in-place anchors to verify actual locations before installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 APPLICATIONS

- A. Multiple Raceways or Cables: Secure raceways and cables to trapeze member with clamps approved for application by an agency acceptable to authorities having jurisdiction.
- B. Hanger Rod Stiffeners: Install hanger rod stiffeners as required by delegate design calculations to prevent buckling of hanger rods due to seismic forces.
- C. Strength of Support and Seismic-Restraint Assemblies: Select sizes of components so strength will be adequate to carry present and future static and seismic loads within specified loading limits.
- D. Provide vibration isolation for floor-mounted and rack mounted transformers as follows:
 1. 45 kVA and below: provide nothing.
 2. 75 kVA to 150 kVA: provide isolation pad.
 3. 225 kVA and above: provide spring isolators.
- E. Provide spring isolators for suspended transformers

3.03 INSTALLATION - GENERAL

- A. Install in accordance with manufacturer's instructions.
- B. Bases:
 1. Adjust equipment level.
- C. On closed spring isolators, adjust so side stabilizers are clear under normal operating conditions.
- D. Prior to making conduit connections to equipment with operating weights substantially different from installed weights, block up equipment with temporary shims to final height. When full load is applied, adjust isolators to load to allow shim removal.

3.04 INSTALLATION - SEISMIC

- A. Comply with:
 - 1. ASHRAE Handbook - HVAC Applications.
 - 2. FEMA 412.
 - 3. FEMA 413.
 - 4. FEMA 414.
 - 5. FEMA E-74.
 - 6. SMACNA 1981.
- B. Seismic Snubbers:
 - 1. Provide on all isolated equipment and conduit.
 - 2. Provide minimum of four seismic snubbers located close to isolators.
 - 3. Snub equipment designated for post-disaster use to 0.05 inch (1.5 mm) maximum clearance.
 - 4. Snub all other equipment between 0.15 inch (4 mm) and 0.25 inch (7 mm) clearance.
- C. Floor and Base-Mounted Equipment, Vibration Isolated Equipment and associated Vibration and Seismic Controls for Connections:
 - 1. Install equipment anchorage items designed to resist seismic design force in any direction.
 - 2. Install vibration and seismic controls designed to include base and isolator requirements.
 - 3. Provide flexible connections between equipment and interconnected conduit.
 - 4. Provide isolators and restraints designed for amplified code forces per ASCE 7 and with demonstrated ability to resist required forces including gravity, operational and seismic forces.
 - 5. Where equipment is not designed to be point loaded, provide base capable of transferring gravity and seismic demands from equipment to isolator base plate anchorage.
 - 6. Where concrete floor thickness is less than required for expansion anchor installation, install through bolt in lieu of expansion anchor.
 - 7. Where timber/wood floor or other substrate is inadequate for installation of lag bolts, screws or other mechanical fasteners, install supplemental framing or blocking to transfer loads to structural elements.
- D. Suspended Electrical Equipment:
 - 1. Provide supports and bracing to resist seismic design force in any direction.
 - 2. Provide flexible connections between equipment and interconnected conduit.
 - 3. Brace equipment hung from spring mounts using cable or other bracing that will not transmit vibration to the structure.
 - 4. Use of proprietary restraint systems with a certificate of compliance, verified and listed by an accredited inspection body is acceptable (pending shop drawing approval), as an alternative to project specific seismic bracing design.
- E. Wall mounted Electrical Equipment:
 - 1. Provide support and bracing to resist seismic design force in any direction.
 - 2. Install backing plates or blocking as required to deliver load to primary wall framing members.
 - 3. Anchoring to gypsum wallboard, plaster or other wall finish that has not been engineered to resist imposed loads is not permitted.
- F. Conduit:
 - 1. Provide seismic bracing in accordance ASCE 7.
 - 2. Provide supports, braces, and anchors to resist gravity and seismic design forces.
 - 3. Provide flexible connections between floor mounted equipment and suspended conduit; between unbraced conduit and restrained suspended items; as required for thermal movement; at building separations and seismic joints; and wherever relative differential movements could damage conduit in an earthquake.
 - 4. Brace resiliently supported conduit with cable bracing or alternate means designed to prevent transmission of vibrations and noise to the structure.

5. Brace every run 5.0 feet (1.5 m) or more in length with two transverse and one longitudinal bracing locations.
6. Conduit and Connections Constructed of Ductile Materials (ductile iron, steel or aluminum and screwed connections):
 - a. Provide transverse bracing at spacing not more than 40.0 feet (12.2 m) on center.
 - b. Provide longitudinal bracing at spacing not more than 80.0 feet (24.4 m) on center.
7. Conduit and Connections Constructed of Non Ductile Materials (plastic or non-UL listed couplings):
 - a. Provide transverse bracing at spacing not more than 20.0 feet (6.1 m) on center.
 - b. Provide longitudinal bracing at spacing not more than 40.0 feet (12.2 m) on center.
8. Provide lateral restraint for risers at not more than 30 feet (9.1 m) on center or as required for horizontal runs, whichever is less.
9. Use of proprietary restraint systems with a certificate of compliance, verified and listed by an accredited inspection body is acceptable (pending shop drawing approval), as an alternative to project specific seismic bracing design.

3.05 SEISMIC-RESTRAINT DEVICE INSTALLATION

- A. Equipment and Hanger Restraints:
 1. Install restrained isolators on electrical equipment.
 2. Install resilient, bolt-isolation washers on equipment anchor bolts where clearance between anchor and adjacent surface exceeds 0.125 inch (3.2 mm).
 3. Install seismic-restraint devices using methods approved by an evaluation service member of ICC-ES or by an agency acceptable to authorities having jurisdiction providing required submittals for component.
- B. Install bushing assemblies for mounting bolts for wall-mounted equipment, arranged to provide resilient media where equipment or equipment-mounting channels are attached to wall.
- C. Attachment to Structure: If specific attachment is not indicated, anchor bracing to structure at flanges of beams, at upper truss chords of bar joists, or at concrete members.
- D. Drilled-in Anchors:
 1. Identify position of reinforcing steel and other embedded items prior to drilling holes for anchors. Do not damage existing reinforcing or embedded items during coring or drilling. Notify the structural engineer if reinforcing steel or other embedded items are encountered during drilling. Locate and avoid pre-stressed tendons, electrical and telecommunications conduit, and gas lines.
 2. Do not drill holes in concrete or masonry until concrete, mortar, or grout has achieved full design strength.
 3. Wedge Anchors: Protect threads from damage during anchor installation. Heavy-duty sleeve anchors shall be installed with sleeve fully engaged in the structural element to which anchor is to be fastened.
 4. Adhesive Anchors: Clean holes to remove loose material and drilling dust prior to installation of adhesive. Place adhesive in holes proceeding from the bottom of the hole and progressing toward the surface in such a manner as to avoid introduction of air pockets in the adhesive.
 5. Set anchors to manufacturer's recommended torque, using a torque wrench.
 6. Install zinc-coated steel anchors for interior and stainless-steel anchors for exterior applications.

3.06 ACCOMMODATION OF DIFFERENTIAL SEISMIC MOTION

- A. Install flexible connections in runs of raceways, cables, wireways, cable trays, and busways where they cross seismic joints, where adjacent sections or branches are supported by different structural elements, and where they terminate with connection to equipment that is anchored to a different structural element from the one supporting them as they approach equipment.

3.07 FIELD QUALITY CONTROL

A. Inspect isolated equipment after installation and submit report. Include static deflections.

END OF SECTION