



# Honda Smart Home

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CA Contractor License #

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Honda Smart Home

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Engineer

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Scale

N/A

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Issue Dates

No.	Date	Description

Date Drawn

4/8/14

Version

- Design Concept Set
- Internal Review Set
- Build Set for General Release
- As-Built Set

Inclusive of:

CO3

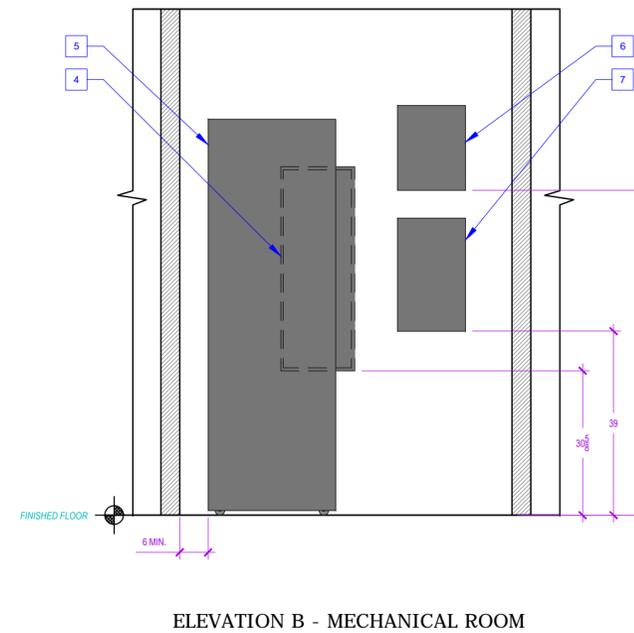
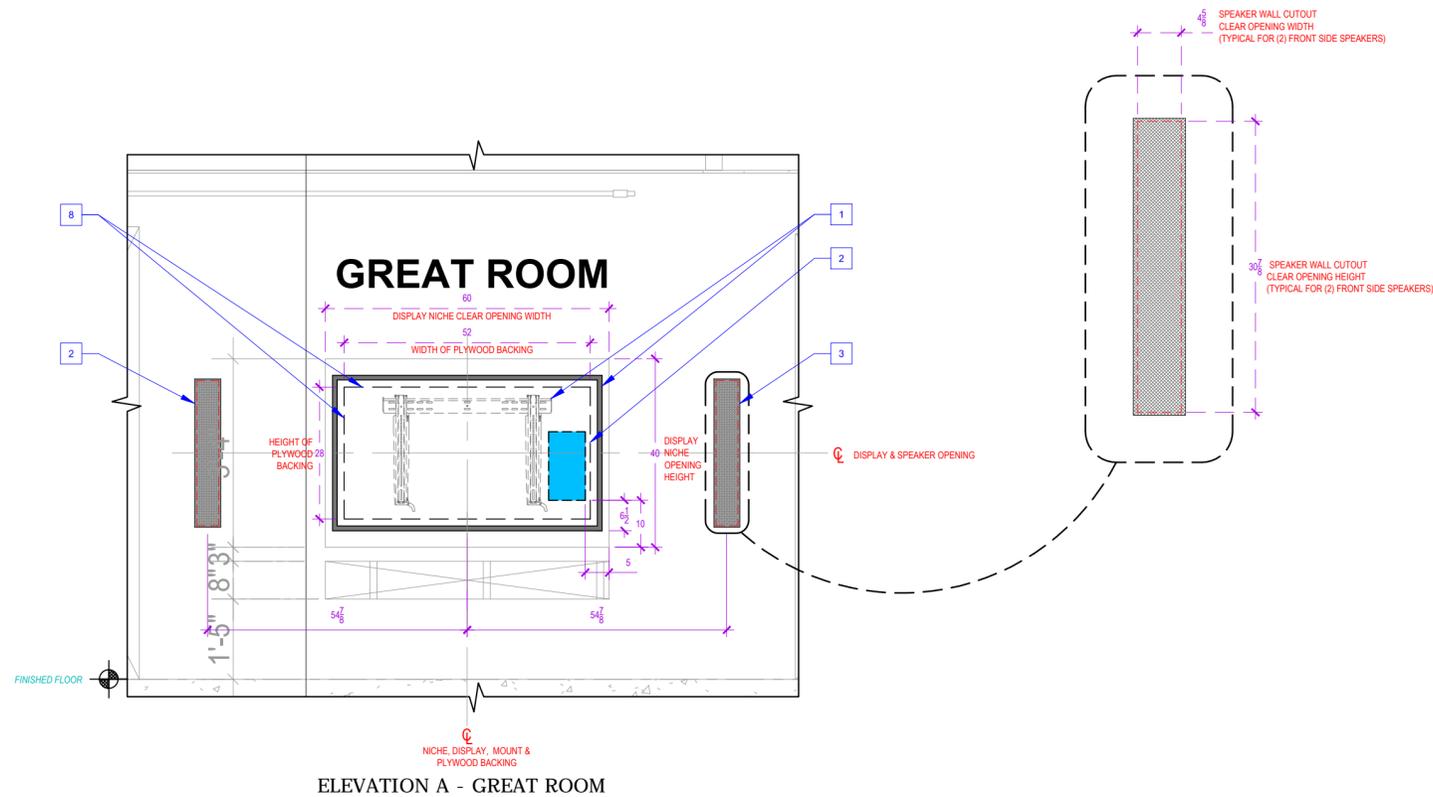
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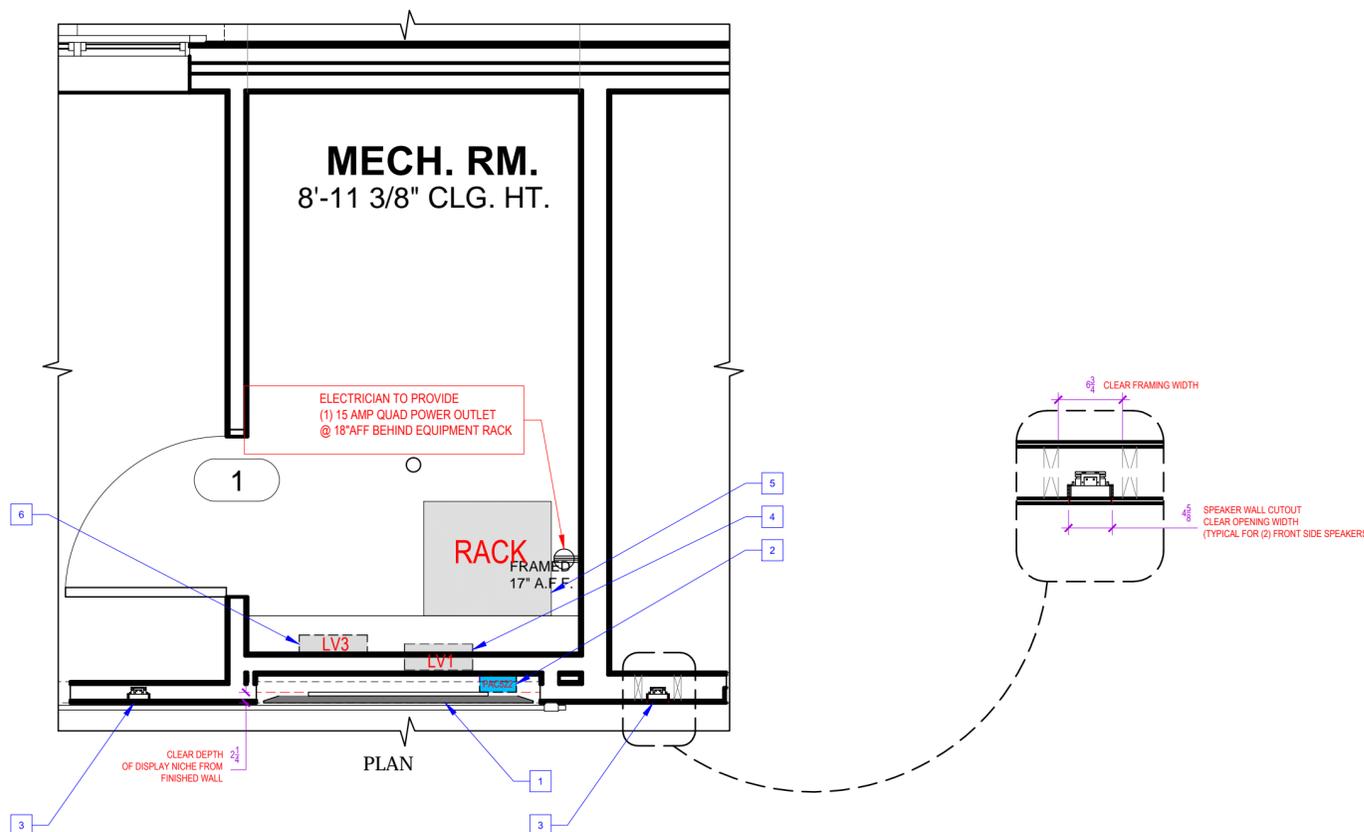
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T-01

Issue Dates		
No.	Date	Description



- 1 DISPLAY (SAMSUNG UN58F8000) & MOUNT (CHIEF LSTU) PROVIDED AND INSTALLED BY CANTARA. DISPLAY DIMENSIONS: 57"W x 33"H x 2-1/4"D (WITH MOUNT). WEIGHT OF DISPLAY & MOUNT - 70 LBS.
- 2 PAC 522 BACKBOX PROVIDED BY CANTARA AND INSTALLED BY GENERAL CONTRACTOR.
- 3 WISDOM AUDIO P4i IN WALL SPEAKERS PROVIDED AND INSTALLED BY CANTARA. GC TO PROVIDE 4-58"W x 30-7/8"H CUTOUT ON DRYWALL FOR MOUNTING OF SPEAKERS.
- 4 STRUCTURED WIRING PANEL PROVIDED & INSTALLED BY CANTARA.
- 5 EQUIPMENT RACK (MIDDLE ATLANTIC BGR 4527 LRD WITH SIDE PANELS & CASTER BASE) PROVIDED BY CANTARA.
- 6 WINDOW ACTUATOR POWER SUPPLY.
- 7 SHADES / KEYPAD POWER SUPPLY.
- 8 GC TO PROVIDE PLYWOOD BACKING FLUSHED ON FINISHED DRYWALL BEHIND DISPLAY. FINISH OF BACKING TO MATCH DRYWALL FINISH.



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Scale  
 3/4" = 1'-0"

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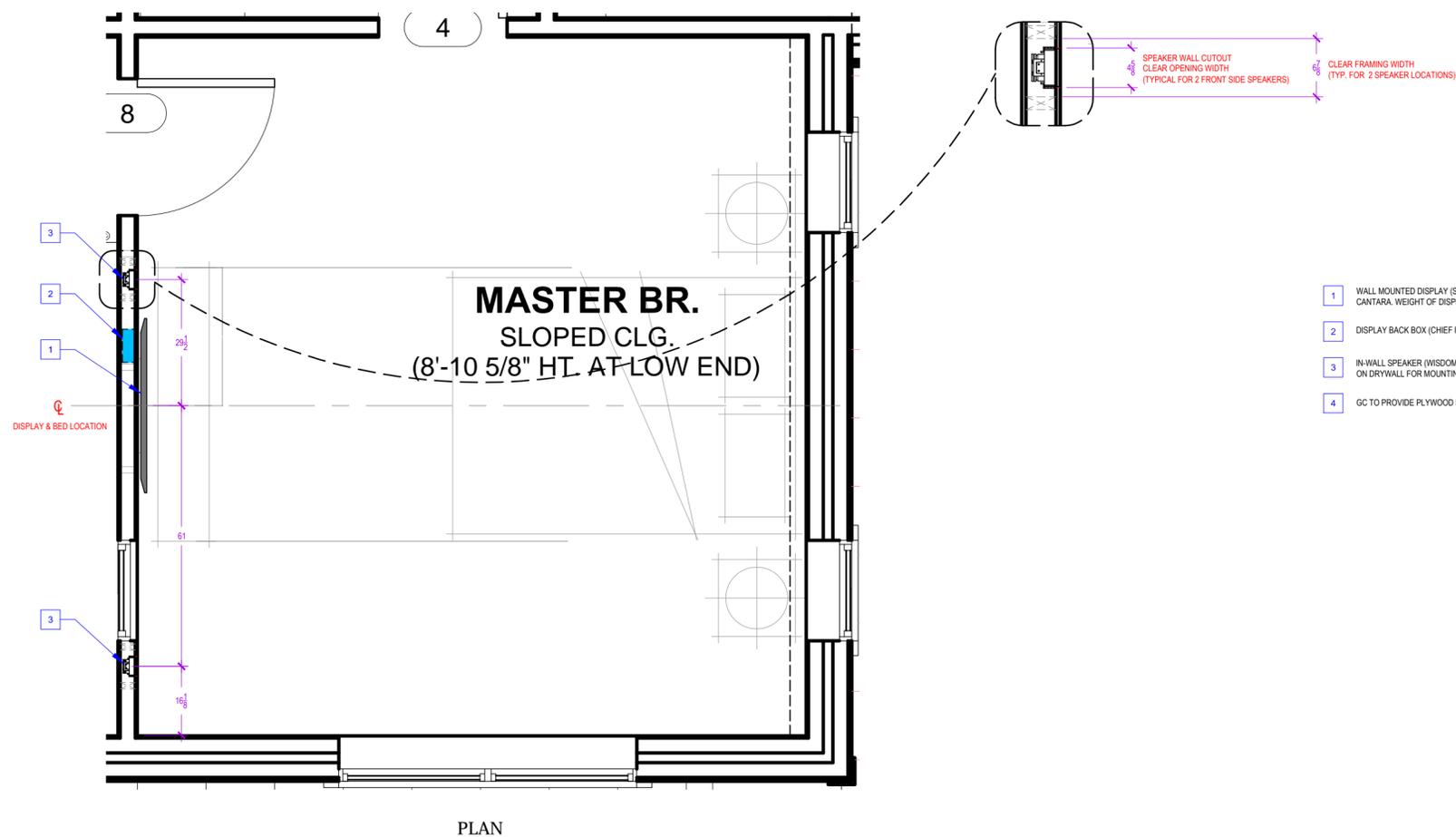
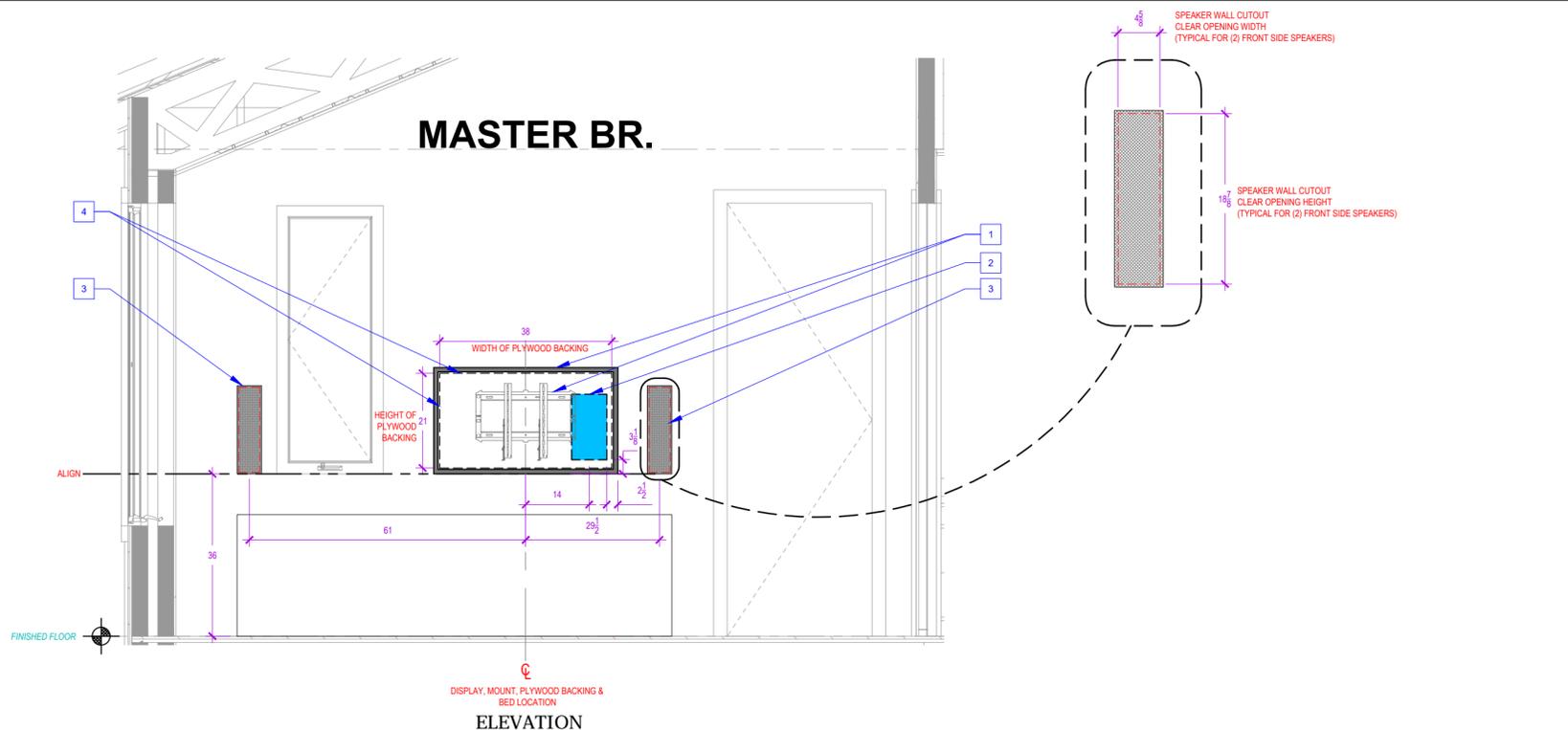
Date Drawn  
 4/8/14

Version  
 Design Concept Set  
 Internal Review Set  
 Build Set for General Release  
 As-Built Set

Inclusive of:  
 CO3

Sheet Title  
 Master Bedroom  
 AV Layout & Elevation

Sheet Number  
 A-02



- 1 WALL MOUNTED DISPLAY (SAMSUNG UN46F8000) & MOUNT (CHIEF RXF2) PROVIDED AND INSTALLED BY CANTARA. WEIGHT OF DISPLAY & MOUNT - 50 LBS.
- 2 DISPLAY BACK BOX (CHIEF PAC 522) PROVIDED AND INSTALLED BY CANTARA.
- 3 IN-WALL SPEAKER (WISDOM AUDIO P2, TYP. OF 2) PROVIDED AND INSTALLED BY CANTARA. GC TO PROVIDE 4-5/8"W x 18-7/8"H CUTOUT ON DRYWALL FOR MOUNTING OF SPEAKERS.
- 4 GC TO PROVIDE PLYWOOD BACKING FLUSH WITH FINISHED DRYWALL BEHIND DISPLAY.



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1/2" = 1'-0"

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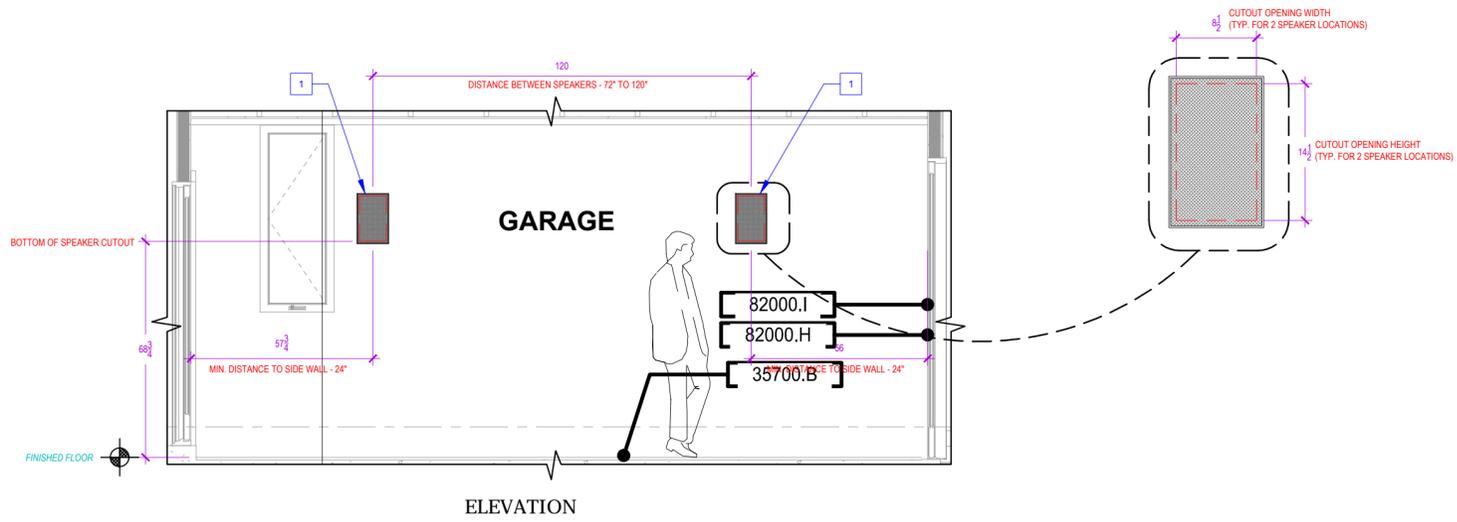
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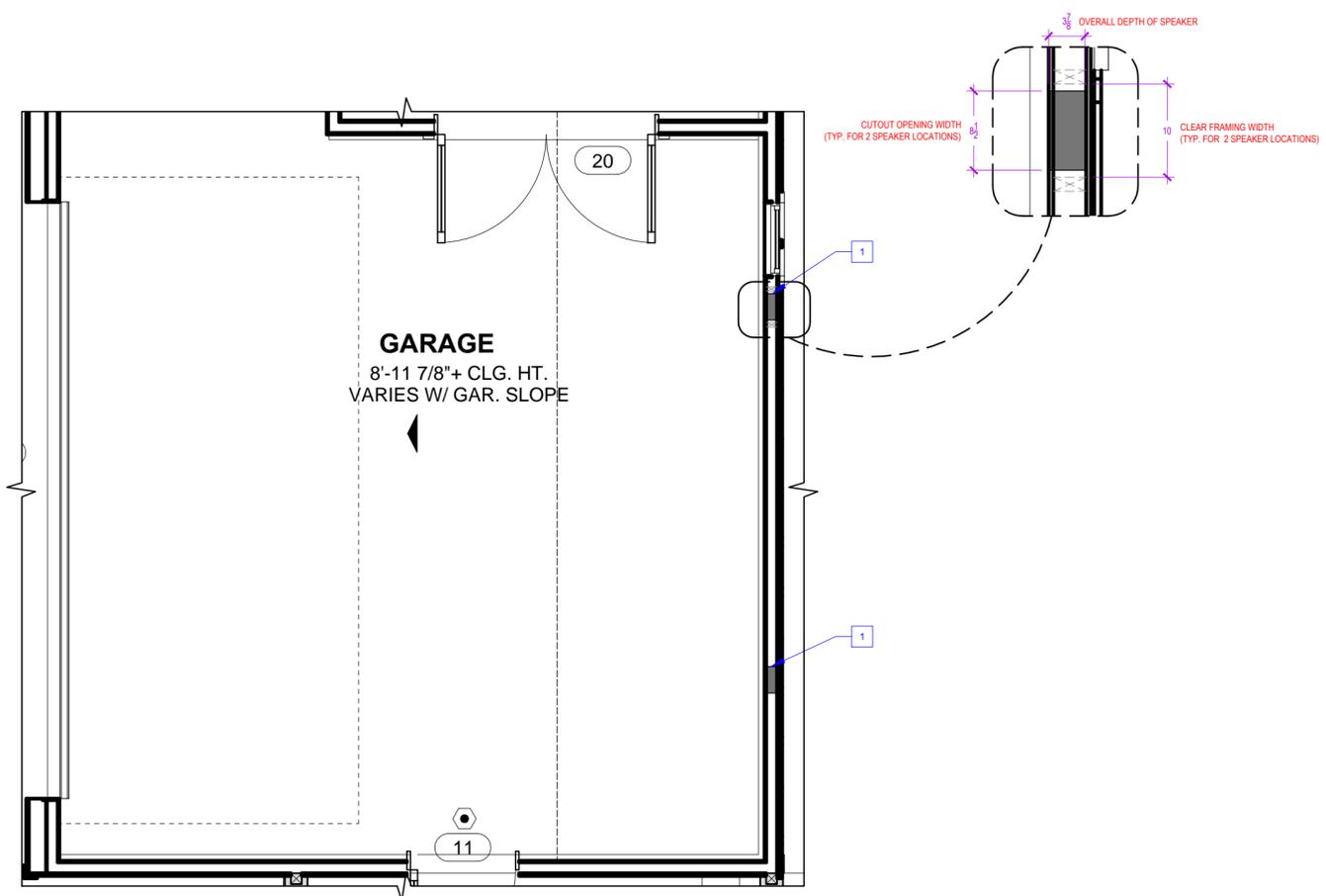
Inclusive of:  
C03

Sheet Title  
Garage  
AV Layout & Elevation

Sheet Number  
A-03



ELEVATION

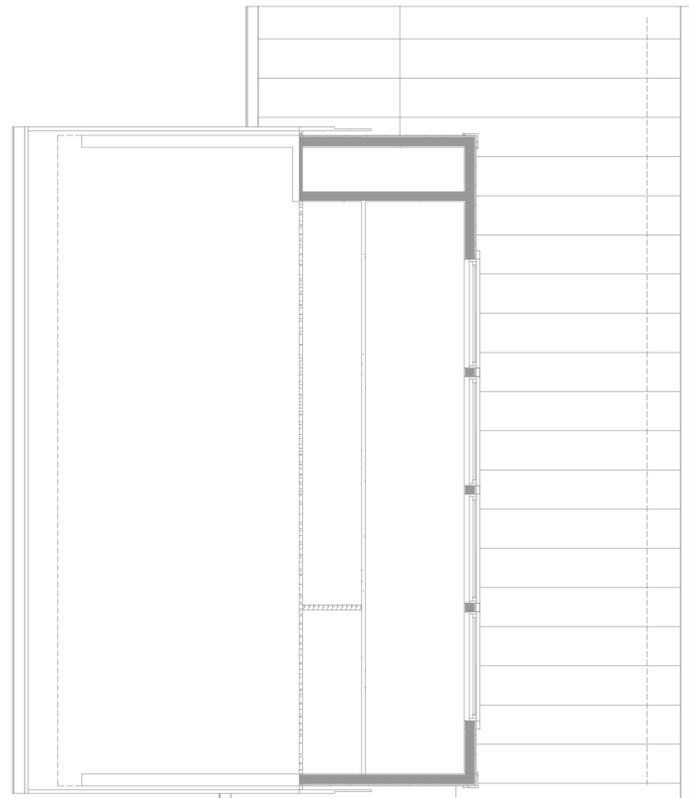


PLAN

1 SONANCE VP85 PROVIDED AND INSTALLED BY CANTARA. GC TO PROVIDE 8-1/2\"/>

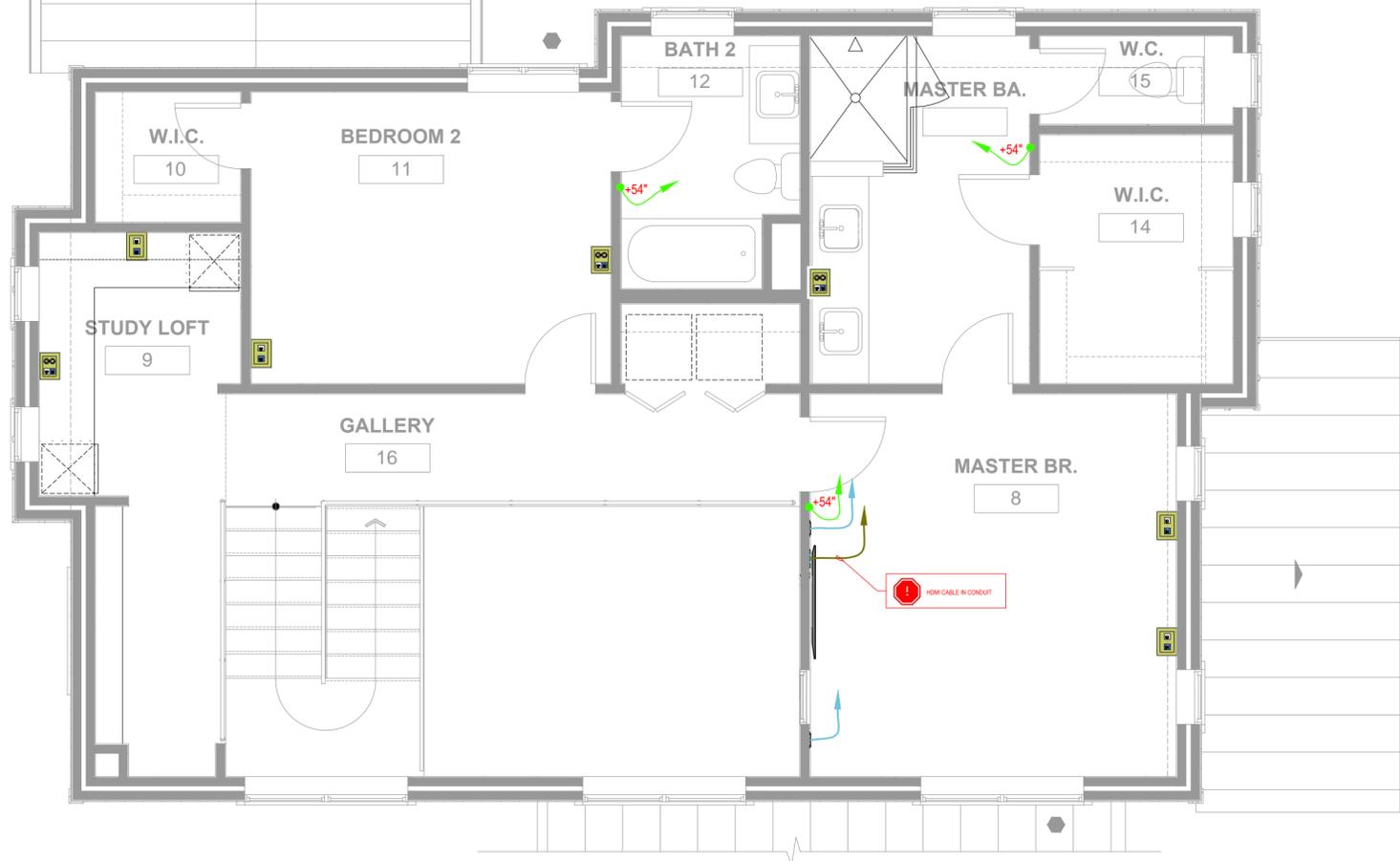
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**LEGEND**

-  PHONE / NETWORK  
(1) CAT5E (WHITE) / (1) CAT5E (BLUE) HOME RUN TO LV1 PANEL IN MECHANICAL ROOM 3.  
MOUNTING HEIGHT: 15" AFF MINIMUM TO BOTTOM OF PLATE - ALIGN WITH CONVENIENCE OUTLET/S IF POSSIBLE.
-  PHONE / NETWORK / TV (MULTIMEDIA)  
(2) RG6 / (1) CAT5E (BLUE) / (1) CAT6 (WHITE) HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3.  
MOUNTING HEIGHT: 15" AFF MINIMUM TO BOTTOM OF PLATE - ALIGN WITH CONVENIENCE OUTLET/S IF POSSIBLE.
-  WALL MOUNTED IPAD  
(1) CAT5 (GREEN) / (1) AXLINK HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3.  
MOUNTING HEIGHT: 54" AFF TO CENTER OF IPAD BACKBOX U.O.N.
-  WALL MOUNTED TOUCH PANEL (AMX MXD-700-L)  
(1) CAT5 (GREEN) / (1) AXLINK HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3.  
MOUNTING HEIGHT: 54" AFF TO CENTER OF IPAD BACKBOX U.O.N.
-  IN-WALL SPEAKERS
-  IN-WALL SUBWOOFER
-  DISPLAY BACKBOX. VERIFY EXACT LOCATION WITH ELEVATION DRAWINGS.
-  WALL MOUNTED DISPLAY
-  STRUCTURED WIRING PANEL. MOUNTING HEIGHT - TBD
-  WALL MOUNTED SHADE / LIGHTING CONTROL PANEL (LUTRON QSN-2ECO-PS120). MOUNTING HEIGHT - TBD
-  WALL MOUNTED WINDOW CONTROL PANEL (QTY. - 1, SEE ELEVATION DRAWING SHEET E-01 FOR MOUNTING HEIGHT)
-  (1) RG6Q / (1) CAT5E (BLUE) / (1) CAT 5E (WHITE) / (1) AQ FOREST HDMI 8.0M HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3. NOTE - HDMI CABLE IN GREAT ROOM ONLY
-  (1) 14/4 STRANDED SPEAKER WIRE HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3. SEE SHEET A-03 FOR HEIGHT & LOCATION.
-  (1) 14/2 STRANDED SPEAKER WIRE HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3. SEE SHEET A-01 & A-03 FOR EXACT HEIGHT & LOCATION.
-  (5) RG6 / (2) CAT5 HOME RUN TO LV1 IN MECHANICAL ROOM 3. VERIFY EXACT LOCATION WITH ARCHITECT.
-  (1) AXLINK / (1) CAT5 HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3 (EQUIPMENT POWER CONTROLLER). VERIFY EXACT LOCATION IN FIELD.
-  (5) SOLID HVAC / (1) CAT5E HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3 (THERMOSTAT / HUMIDITY SENSOR)
-  (1) 1-1/4" CONDUIT FROM LEC TO DISPLAY BACKBOX PROVIDED BY ELECTRICIAN



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Scale  
 3/8" = 1'-0"

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4/8/14

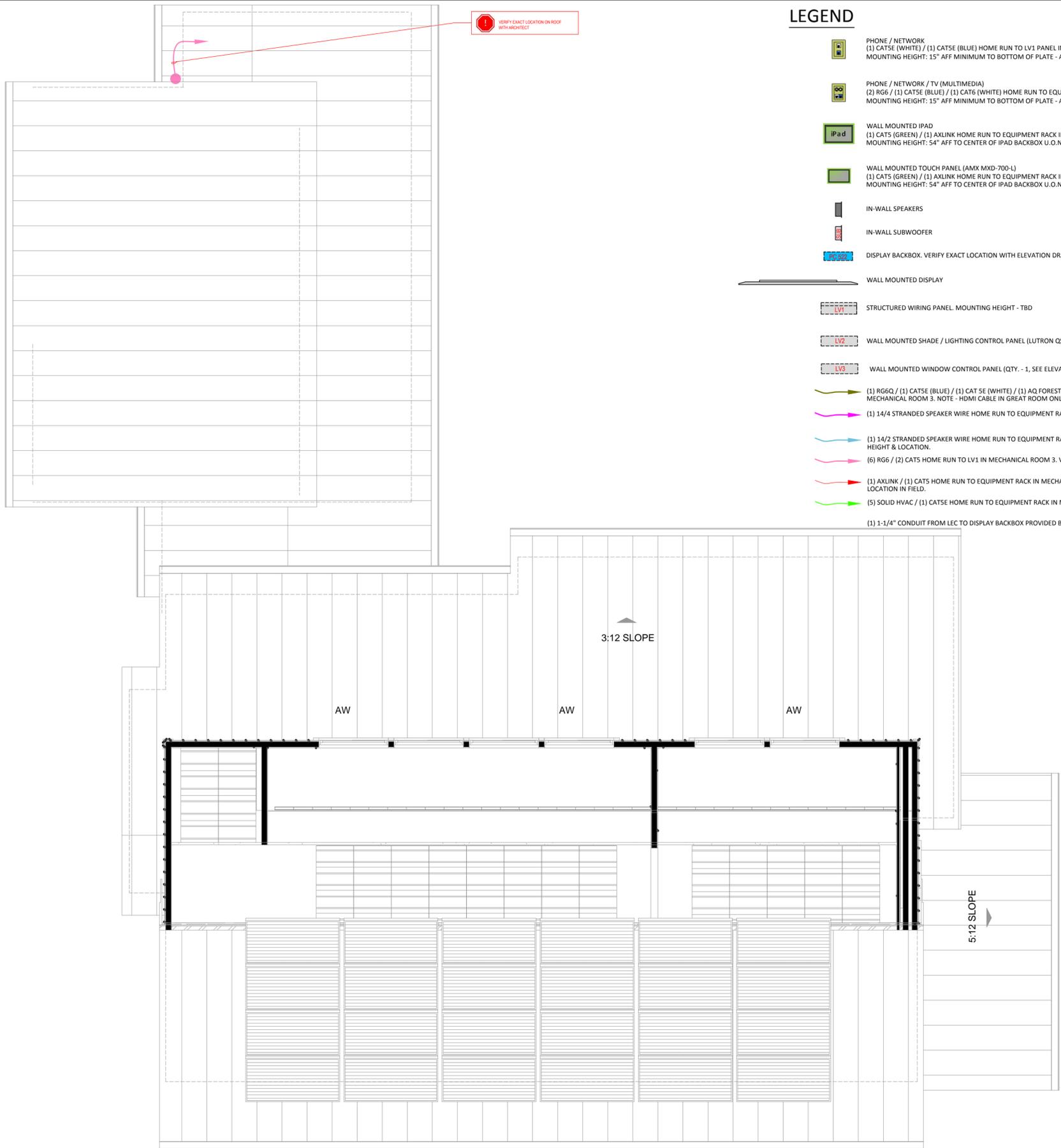
- Version
- Design Concept Set
  - Internal Review Set
  - Build Set for General Release
  - As-Built Set

Inclusive of:  
 CO3

Sheet Title  
 Second Floor  
 AV Pre-Wire Layout

Sheet Number  
 AV-1.2

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**LEGEND**

-  PHONE / NETWORK  
(1) CAT5E (WHITE) / (1) CAT5E (BLUE) HOME RUN TO LV1 PANEL IN MECHANICAL ROOM 3.  
MOUNTING HEIGHT: 15" AFF MINIMUM TO BOTTOM OF PLATE - ALIGN WITH CONVENIENCE OUTLET/S IF POSSIBLE.
-  PHONE / NETWORK / TV (MULTIMEDIA)  
(2) RG6 / (1) CAT5E (BLUE) / (1) CAT6 (WHITE) HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3.  
MOUNTING HEIGHT: 15" AFF MINIMUM TO BOTTOM OF PLATE - ALIGN WITH CONVENIENCE OUTLET/S IF POSSIBLE.
-  WALL MOUNTED IPAD  
(1) CAT5 (GREEN) / (1) AXLINK HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3.  
MOUNTING HEIGHT: 54" AFF TO CENTER OF IPAD BACKBOX U.O.N.
-  WALL MOUNTED TOUCH PANEL (AMX MYD-700-L)  
(1) CAT5 (GREEN) / (1) AXLINK HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3.  
MOUNTING HEIGHT: 54" AFF TO CENTER OF IPAD BACKBOX U.O.N.
-  IN-WALL SPEAKERS
-  IN-WALL SUBWOOFER
-  DISPLAY BACKBOX. VERIFY EXACT LOCATION WITH ELEVATION DRAWINGS.
-  WALL MOUNTED DISPLAY
-  STRUCTURED WIRING PANEL. MOUNTING HEIGHT - TBD
-  WALL MOUNTED SHADE / LIGHTING CONTROL PANEL (LUTRON QSN-2ECO-PS120). MOUNTING HEIGHT - TBD
-  WALL MOUNTED WINDOW CONTROL PANEL (QTY. - 1, SEE ELEVATION DRAWING SHEET E-01 FOR MOUNTING HEIGHT)
-  (1) RG6Q / (1) CAT5E (BLUE) / (1) CAT 5E (WHITE) / (1) AQ FOREST HDMI 8.0M HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3. NOTE - HDMI CABLE IN GREAT ROOM ONLY
-  (1) 14/4 STRANDED SPEAKER WIRE HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3. SEE SHEET A-03 FOR HEIGHT & LOCATION.
-  (1) 14/2 STRANDED SPEAKER WIRE HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3. SEE SHEET A-01 & A-03 FOR EXACT HEIGHT & LOCATION.
-  (6) RG6 / (2) CAT5 HOME RUN TO LV1 IN MECHANICAL ROOM 3. VERIFY EXACT LOCATION WITH ARCHITECT.
-  (1) AXLINK / (1) CAT5 HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3 (EQUIPMENT POWER CONTROLLER). VERIFY EXACT LOCATION IN FIELD.
-  (5) SOLID HVAC / (1) CAT5E HOME RUN TO EQUIPMENT RACK IN MECHANICAL ROOM 3 (THERMOSTAT / HUMIDITY SENSOR)
-  (1) 1-1/4" CONDUIT FROM LEC TO DISPLAY BACKBOX PROVIDED BY ELECTRICIAN

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Scale  
**3/8" = 1'-0"**

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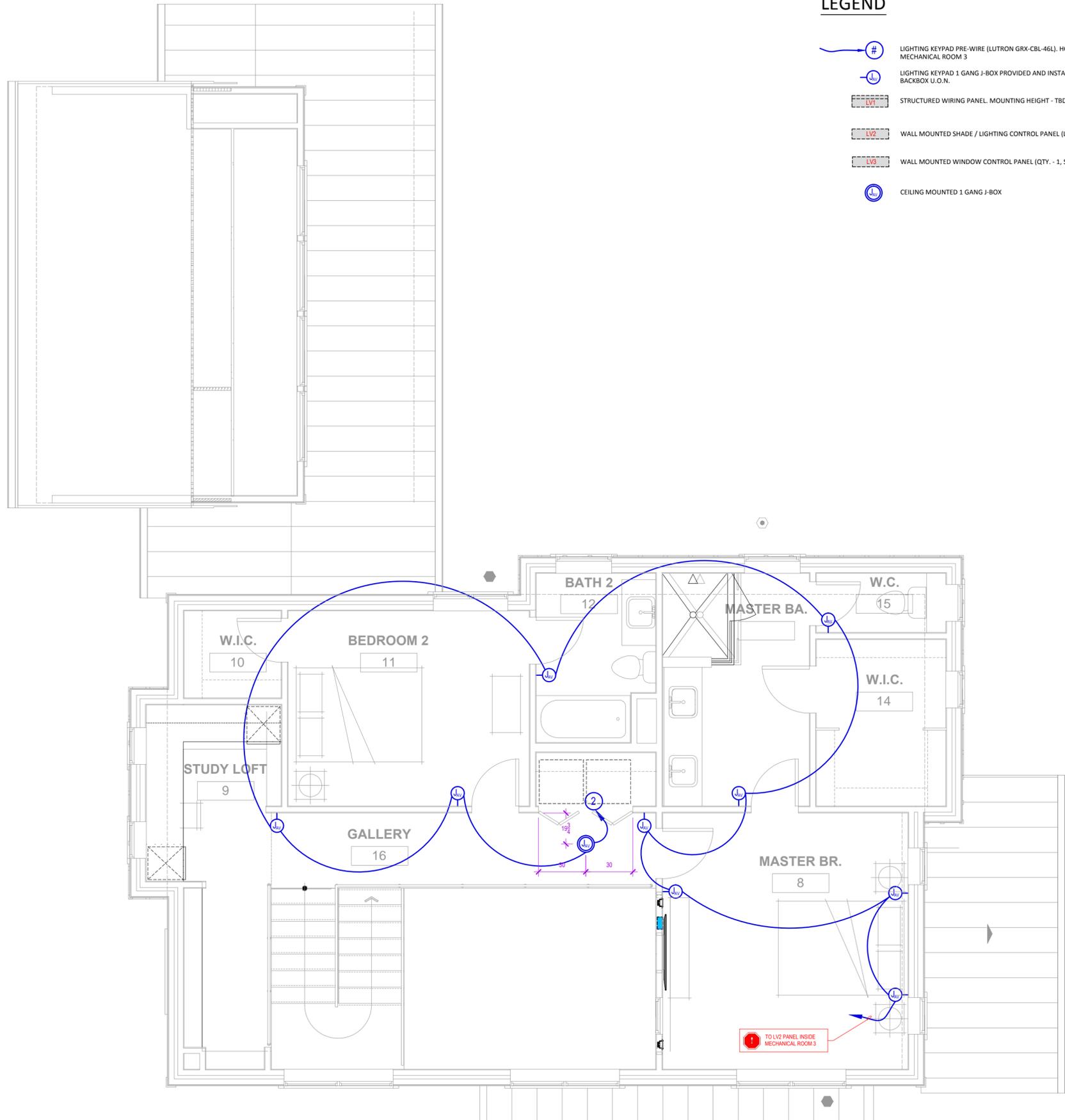
Inclusive of:  
CO3

Sheet Title  
Roof / Clerestory  
AV Pre-Wire Layout

Sheet Number  
AV-1.3

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**LEGEND**

- LIGHTING KEYPAD PRE-WIRE (LUTRON GRX-CBL-46L). HOME RUN TO LV2 LIGHTING KEYPAD WALL PANEL LOCATED IN MECHANICAL ROOM 3
- LIGHTING KEYPAD 1 GANG J-BOX PROVIDED AND INSTALLED BY CANTARA. MOUNTING HEIGHT: 54" AFF TO CENTER OF BACKBOX U.D.N.
- STRUCTURED WIRING PANEL. MOUNTING HEIGHT - TBD
- WALL MOUNTED SHADE / LIGHTING CONTROL PANEL (LUTRON QSN-2ECO-PS120). MOUNTING HEIGHT - TBD
- WALL MOUNTED WINDOW CONTROL PANEL (QTY. - 1, SEE ELEVATION DRAWING SHEET E-01 FOR MOUNTING HEIGHT)
- CEILING MOUNTED 1 GANG J-BOX

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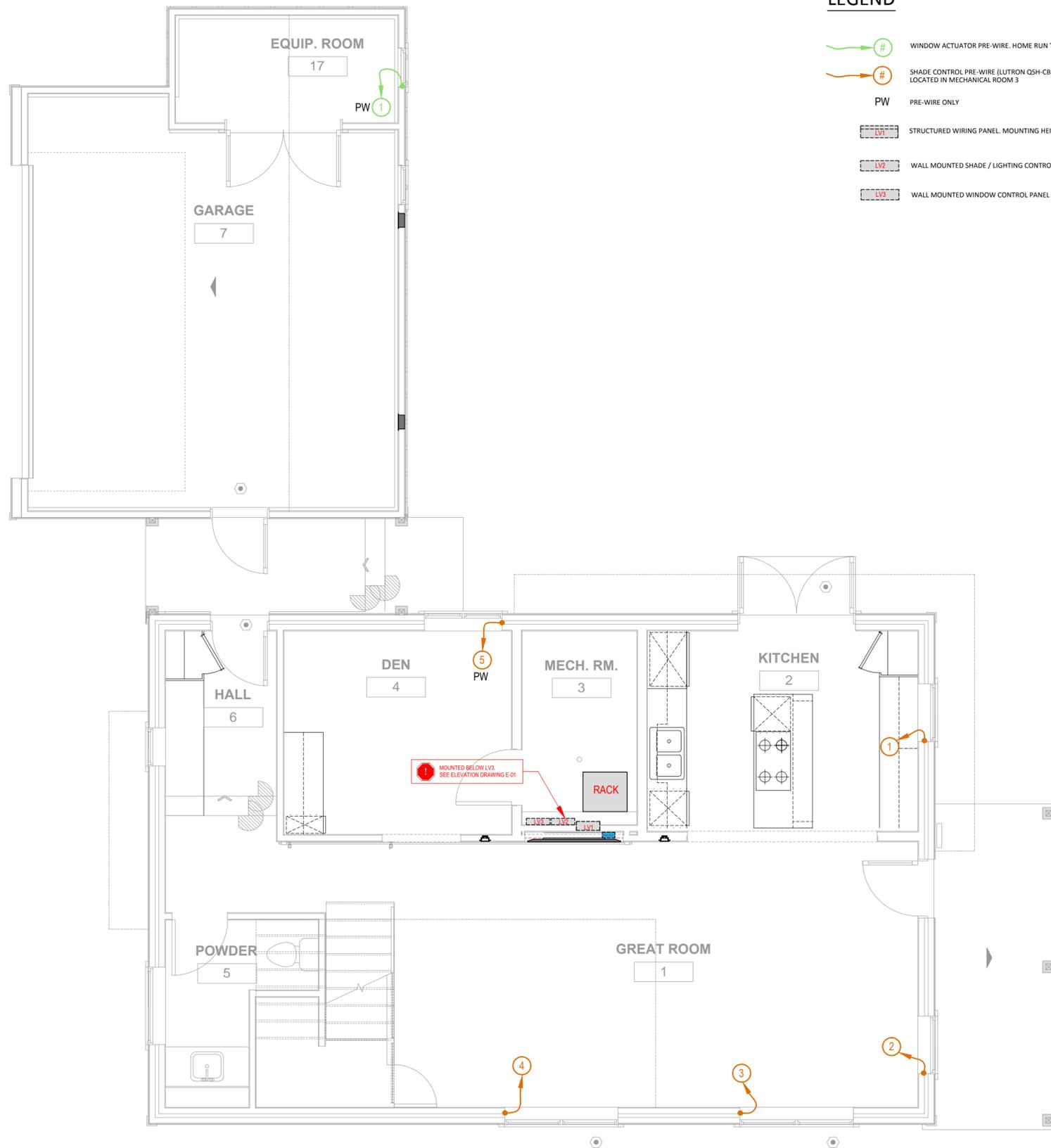
- Version
- Design Concept Set
  - Internal Review Set
  - Build Set for General Release
  - As-Built Set

Inclusive of:  
 CO3

Sheet Title  
 Second Floor  
 Lighting Keypad  
 Backbox & Pre-Wire Layout

Sheet Number  
 A-2.2

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**LEGEND**

- WINDOW ACTUATOR PRE-WIRE, HOME RUN TO LV3 WINDOW CONTROL WALL PANEL LOCATED IN MECHANICAL ROOM 3
- SHADE CONTROL PRE-WIRE (LUTRON QSH-CBL-L500), HOME RUN TO LV2 SHADE / KEYPAD CONTROL WALL PANEL LOCATED IN MECHANICAL ROOM 3
- PW** PRE-WIRE ONLY
- STRUCTURED WIRING PANEL, MOUNTING HEIGHT - TBD
- WALL MOUNTED SHADE / LIGHTING CONTROL PANEL (LUTRON QSN-2ECO-PS120), MOUNTING HEIGHT - TBD
- WALL MOUNTED WINDOW CONTROL PANEL (QTY. - 1, SEE ELEVATION DRAWING SHEET E-01 FOR MOUNTING HEIGHT)



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Revisions

No.	Date	Description

4/8/14

Version

- Design Concept Set
- Internal Review Set
- Build Set for General Release
- As-Built Set

Inclusive of:

CO3

Sheet Title

First Floor  
Shade & Window Control  
Pre-Wire Layout

Sheet Number

AV-3.1

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Scale  
1 - 1/2" = 1'-0" U.O.N.

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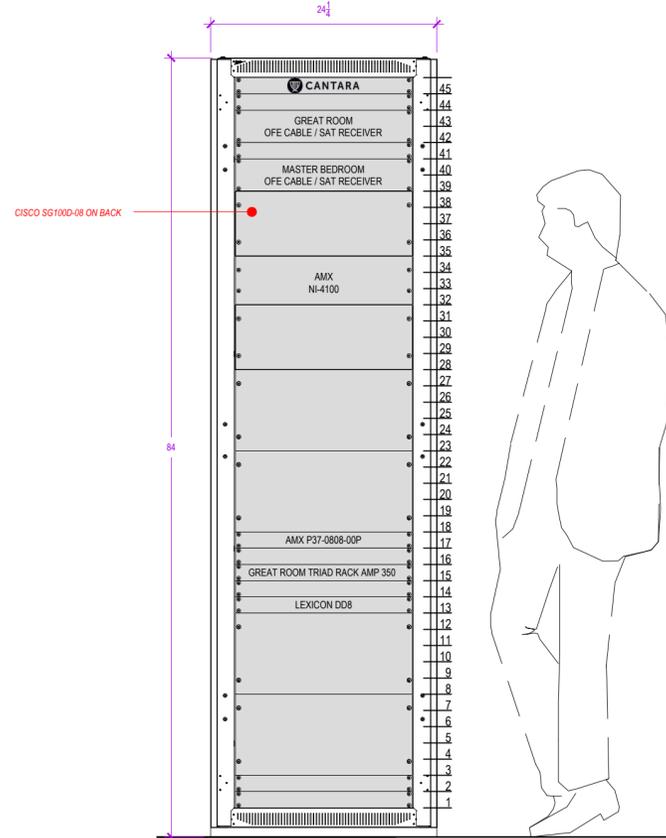
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CO3

Sheet Title  
House Wide Rack Elevation

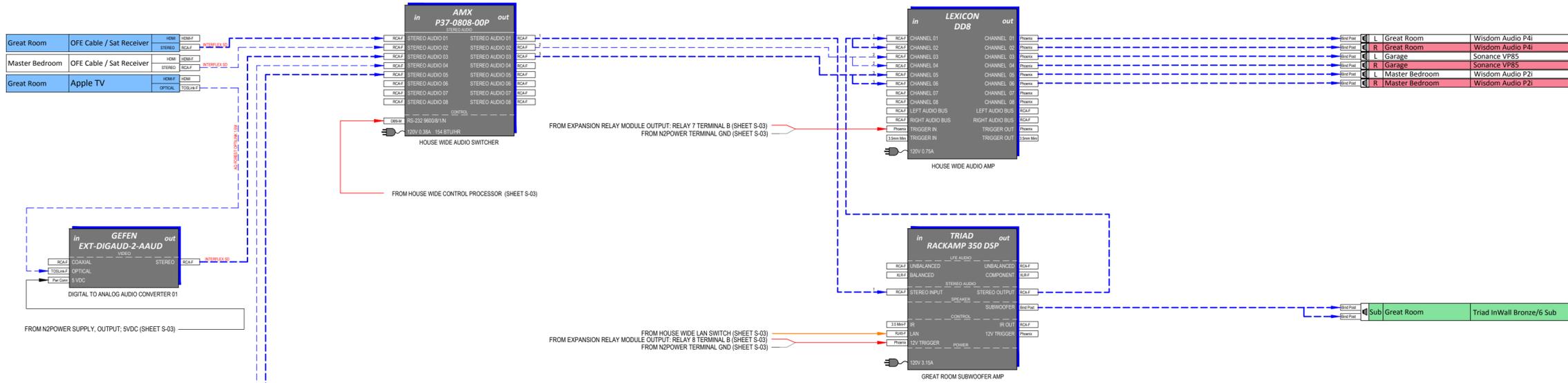
Sheet Number  
E-01

**EQUIPMENT BEHIND RACK:**

- 1) (1) APPLE TV
- 2) (1) GEFEN GTV-DD-2-AA
- 3) (1) MIDDLE ATLANTIC PDT-2015C-NS
- 4) (1) APC APT931
- 5) (1) AMX PSN4.2
- 6) (1) CISCO SG100D-08
- 7) (1) ARDUINO MEGA 2560 MICROCONTROLLER



HOUSE WIDE RACK  
MIDDLE ATLANTIC BGR-4527 LRD WITH SIDE PANELS & CASTER BASE



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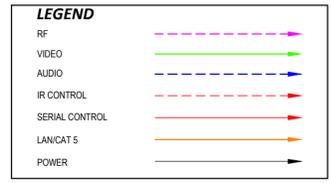
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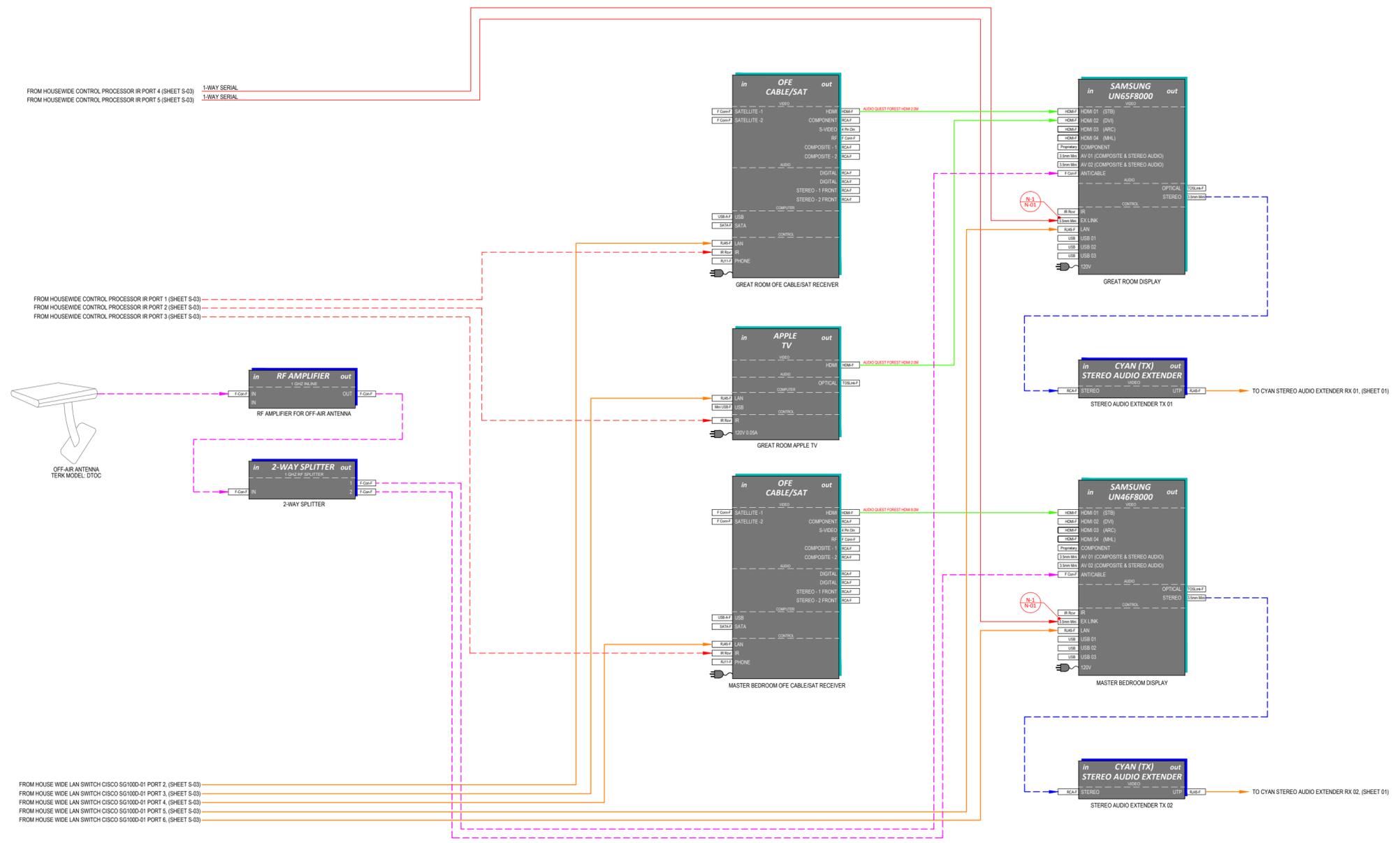
Inclusive of:  
 CO3

Sheet Title  
 House Wide Audio Schematic

Sheet Number  
 S-01



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FROM HOUSEWIDE CONTROL PROCESSOR IR PORT 4 (SHEET S-03) 1-WAY SERIAL  
 FROM HOUSEWIDE CONTROL PROCESSOR IR PORT 5 (SHEET S-03) 1-WAY SERIAL

FROM HOUSEWIDE CONTROL PROCESSOR IR PORT 1 (SHEET S-03)  
 FROM HOUSEWIDE CONTROL PROCESSOR IR PORT 2 (SHEET S-03)  
 FROM HOUSEWIDE CONTROL PROCESSOR IR PORT 3 (SHEET S-03)

FROM HOUSE WIDE LAN SWITCH CISCO SG1000-01 PORT 2, (SHEET S-03)  
 FROM HOUSE WIDE LAN SWITCH CISCO SG1000-01 PORT 3, (SHEET S-03)  
 FROM HOUSE WIDE LAN SWITCH CISCO SG1000-01 PORT 4, (SHEET S-03)  
 FROM HOUSE WIDE LAN SWITCH CISCO SG1000-01 PORT 5, (SHEET S-03)  
 FROM HOUSE WIDE LAN SWITCH CISCO SG1000-01 PORT 6, (SHEET S-03)

**LEGEND**

RF	
VIDEO	
AUDIO	
IR CONTROL	
SERIAL CONTROL	
LAN/CAT 5	
POWER	

**CANTARA**

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Scale  
 N/A

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No.	Date	Description

Date Drawn  
**4/8/14**

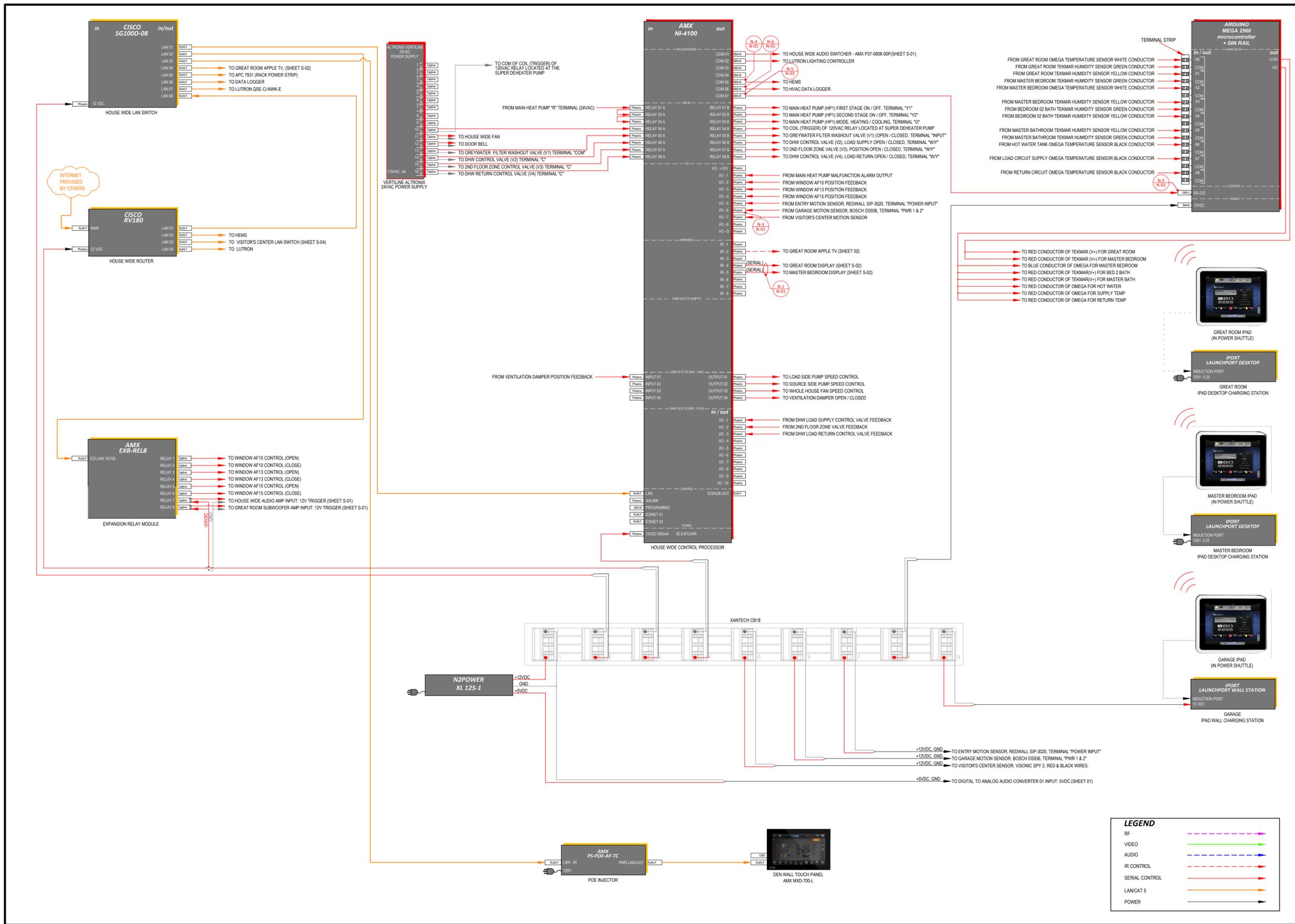
Version  
 Design Concept Set  
 Internal Review Set  
 Build Set for General Release  
 As Built Set

Inclusive of:  
**CO3**

Sheet Title  
**House Wide Video Schematic**

Sheet Number  
**S-02**

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**Honda Smart Home**

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N/A

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Revised	Date	Description

Drawn

4/8/14

Version

Design Concept Set  
 Internal Review Set  
 Build Set for General Release  
 As-Built Set

Inclusive of:

CO3

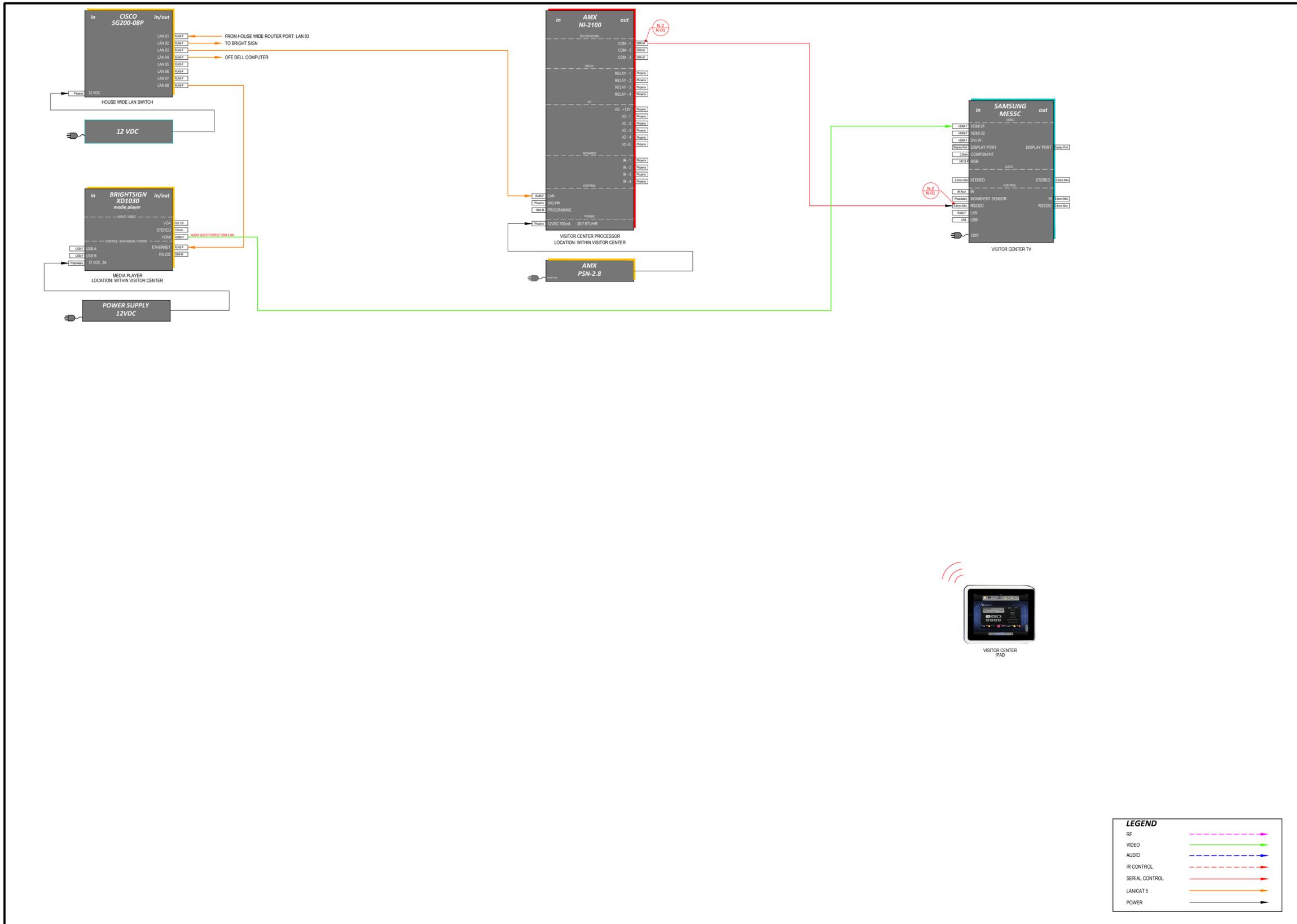
Sheet Title

**House Wide Control Schematic**

Sheet Number

**S-03**

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No.	Date	Description

Date Drawn: 4/8/14

- Version:
- Design Concept Set
  - Internal Review Set
  - Build Set for General Release
  - As-Built Set

Inclusive of: CO3

Sheet Title: Visitor Center AV & Control Schematic

Sheet Number: S-04

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Scale

N/A

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Issue Dates

No.	Date	Description

Date Drawn

4/8/14

Version

- Design Concept Set
- Internal Review Set
- Build Set for General Release
- As-Built Set

Inclusive of:

CO3

Sheet Title

Power Schedule

Sheet Number

P-01

WALL OUTLETS

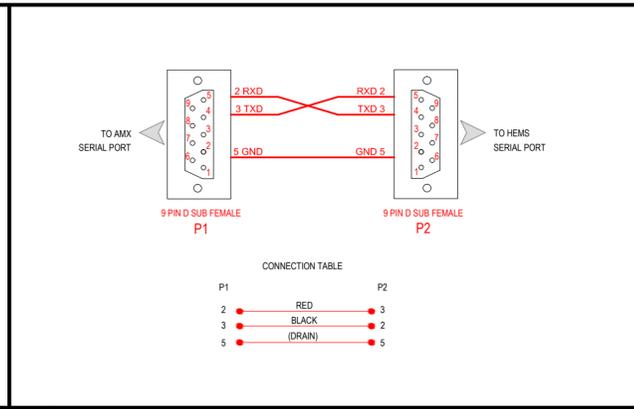
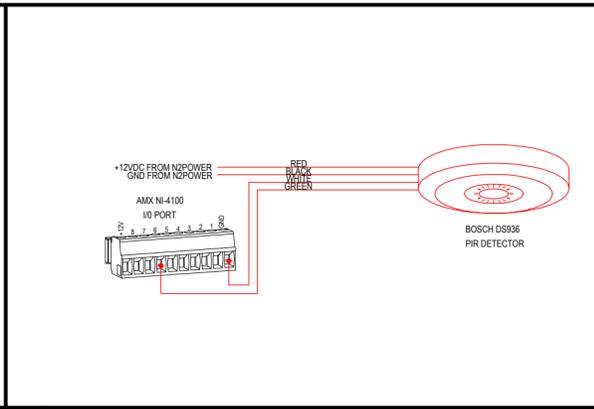
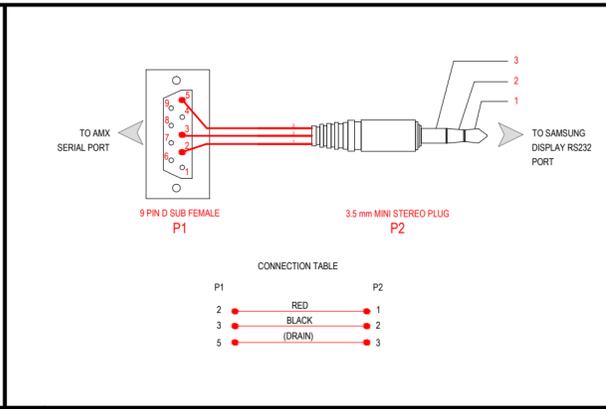
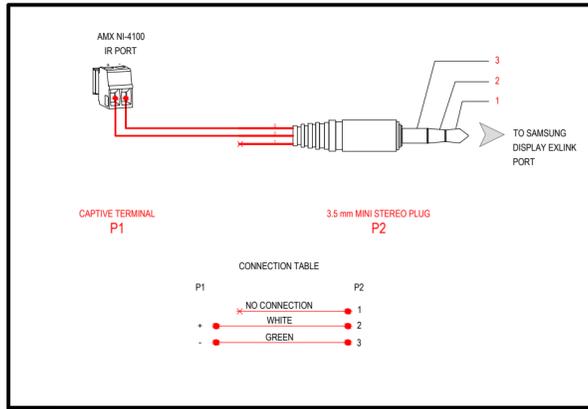
EQUIPMENT PLUGGED IN TO WALL OUTLETS

EQUIPMENT DESCRIPTION	MAX. CURRENT DRAW (AMPS)	POWER SOURCE	CKT. NO.
(1) APC AP7931	9.81	WALL POWER OUTLET	1
TOTAL	9.81		

RACK POWER STRIP

EQUIPMENT PLUGGED IN TO APC AP7931

EQUIPMENT DESCRIPTION	MAX. CURRENT DRAW (AMPS)	OUTLET NO.
N2POWER XL 125-1	0.63	1
AMX P37-0808-00P	0.38	2
GREAT ROOM OFE CABLE/SAT RECEIVER	1.00	3
MASTER BEDROOM OFE CABLE/SAT RECEIVER	1.00	4
APPLE TV	0.05	5
CISCO S30102D-08	0.02	6
AMX PS-POE-AF-TC	2.17	7
GEFEN GTV-DD-2-AA	0.02	8
LEXICON DDB	1.19	9
TRIAD RACK AMP 350	3.15	10
AMX PS-POE-AF-TC	0.07	11
		12
		13
		14
		15
		16
TOTAL	9.68	

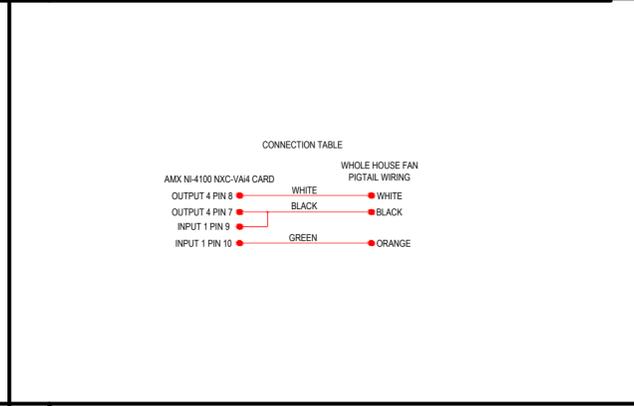
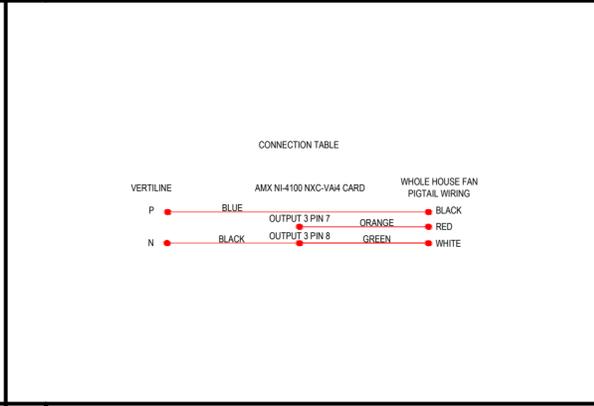
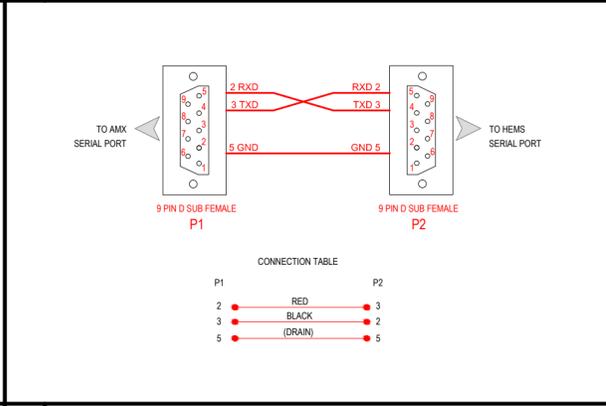
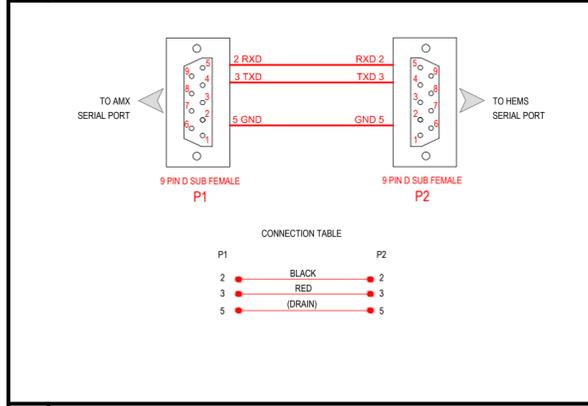


N-1 AMX IR PORT TO SAMSUNG DISPLAY EX LINK PINOUT

N-2 AMX SERIAL PORT TO SAMSUNG DISPLAY RS-232 PINOUT

N-3 360 DEGREE MOTION DETECTOR HALLWAY TO GARAGE WIRE CONNECTION

N-4 AMX SERIAL PORT TO HEMS SERIAL PORT



N-5 AMX SERIAL PORT TO ARDUINO MEGA 2560 SERIAL PORT

N-6 AMX SERIAL PORT TO DATA LOGGER SERIAL PORT

N-6 VERTILINE POWER SUPPLY TO AMX TO WHOLE HOUSE FAN WIRING

N-7 AMX TO DAMPER WIRING

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 CO3

Sheet Title  
 Schematic Notes

Sheet Number  
 N-01

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