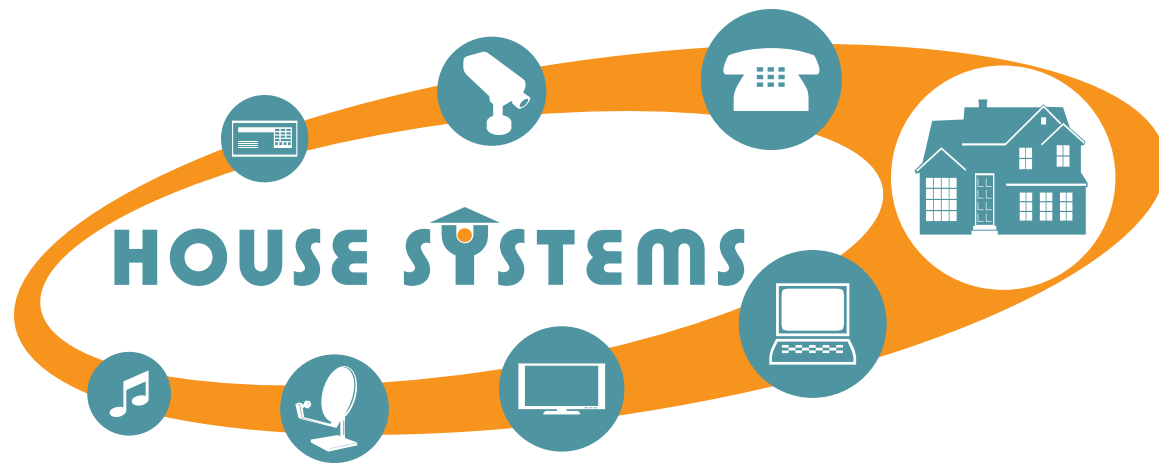


SMART SOLUTIONS FOR FINE LIVING



Welcome to House Systems!

INTELLIGENT AUTOMATION SOLUTIONS FOR HOME AND BUSINESS

The seamless integration of state-of-the-future technology into your business or lifestyle is a complicated task. We make it simple. We are House Systems... the premier providers of custom automation systems for home or business. You can find our work throughout New York's most exclusive residential and commercial neighborhoods.

Our reputation is built on our ability provide high quality installation and service of automated smart home and office technologies that meet and exceed the expectations of our clients. We take a hands on approach to ensure complete satisfaction on every project. House Systems' talented team of professionals is always available and accessible. All technicians and installation specialists are House Systems' employees, fully trained and certified in the processes required to ensure a smooth installation experience. In order to provide you with the highest level of service and support, our technicians train diligently to stay ahead of the evolving technological curve.

From design through construction and end-user support, House Systems uses all disciplines of home theater and home control to provide you with technology that embraces your style of entertainment, relaxation and life.

Our vision is to show you the audiovisual possibilities for your new dream home. House Systems takes a hands-on approach with every installation. We are available to consult with you on all of your digital home entertainment and automation needs. We will help you create a home environment that is fun, easy to use and fitting to your lifestyle.

CAPABILITIES

- | | | |
|---------------------|-----------------------------------|---------------------------------|
| • Access Control | • Computer and Internet Services | • Satellite TV Installations |
| • Alarm Systems | • Home Automation | • Security Surveillance Systems |
| • Apple Integration | • Home Theater/Multizone | • Technology Concierge |
| • Audio/Video | • Multi-Media Applications | • Telephone/Data Networking |
| • Cable Management | • Presentation & Conference Rooms | • Video Conferencing |

To learn more about House Systems and to schedule a comprehensive media system demonstration, contact a representative at 212.675.5938, email info@housesystems.net or visit us online at www.housesystems.net

House Systems is a NYS registered company of Electronics Partners Group, Inc.

The Company



Media Rooms

Some of the most exhilarating surround sound rooms are not cinema rooms at all! They're Living Rooms, Family Rooms, Master Bedrooms and outdoor Patios that serve dual functions. In fact, almost any room in your home can be recreated into a multi-purpose media room, concealing a home theatre that only reveals itself at the touch of a button. We can engineer hidden screens and speakers that descend from ceilings, hide inside framed artwork, or rise from specially-designed furniture.



Home Control

If your coffee table is littered with six remote controls - and you can't figure out which one turns the Blu-Ray player on - we've got your solution! Intelligent home control devices put an end to remote overload. With one reliable & user-friendly device, anyone in your family can operate the entertainment system, lights, thermostats, shades and more.



Audio Distribution

A/D systems send music to any room in your home or office via a central processor. Control of your music playlists is simple and intuitive by means of a touch panel, keypad, handheld RF remote, iPad or similar wi-fi device. Whether the speakers are placed in the walls, ceiling, bookshelves, yard, shower or pool, each A/D system is uniquely designed to blend in with its surroundings in order to minimize the visual impact.

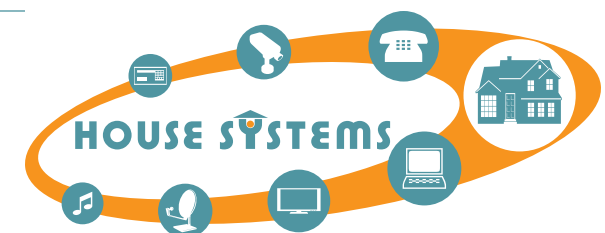


Home Theater

A dedicated private cinema is a room in which the environment has been precisely designed & engineered to provide maximum movie and music enjoyment. Special acoustic treatment isolates the room from outside noise, and measured speaker placement optimizes the audio. Plush theatre seating is carefully positioned to allow for unobstructed viewing of your video content on the big screen. Room lighting is controlled, as well, in order to ensure the best picture delivery from the hi-def projector.



Our Services



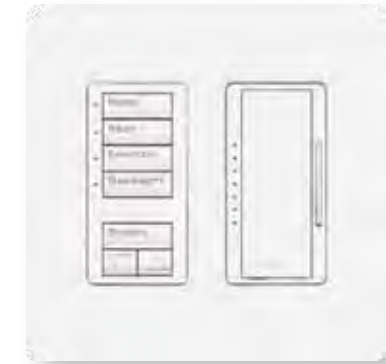
Entry Systems

Our entry systems can be stand-alone or integrated into your phone system, so that when someone rings the doorbell, your phones ring. Pick up to speak with someone, or just press a button to open the gate. Add video capability, and you can see who's there or be able to record a license plate history of all visitors on your property. Program the doorbell or phone to pause the house audio system so you never miss a ring, no matter how loud you like your music.



Residential Lighting Systems

Go green and save money by installing new fixtures - or replacing existing lights - with an energy efficient design. Custom-tailored lighting control will allow you to change the mood of any area of your home to suit the occasion. Whether you are watching TV, dining or entertaining, one press of a button can create the ideal atmosphere you desire. Intelligent lighting also contributes to a safe environment by linking with the security system to turn lights on if uninvited activity is detected. New construction or upgrade - let us fashion a lighting solution perfect for you.



Networking

A network is a home's central nervous system. We'll help lay a solid and reliable foundation that's ready for today's technology, and tomorrow's. Our experience has shown a hard-wired solution almost always works best. So why not wireless? For most home entertainment and communications applications, wireless should only be used if it is not feasible or cost effective to get a wire to a location. Either way, we will work with you to find a networking solution.

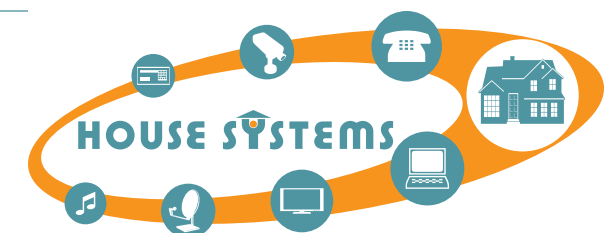


High Performance Audio

We offer a wide selection of high performance audio gear including speakers, amplifiers and sources. Our audiophile grade equipment offers complete listening satisfaction for even the most discerning customers. When combined with a properly designed room that factors in room acoustics and proper isolation, we can achieve musical perfection.



Our Services



Telephone System

PBX and IP-based telephone systems provide far more features than plain old telephones. A central processor controls the routing of calls to system phones throughout the home or office. Phone systems can provide direct paging ability, utilize advanced mailbox features for each family member, double as an intercom, offer elaborate auto-attendant features, or allow roaming integration with mobile phones.



CCTV

New technologies have made CCTV and Access Control Integration seamless. We have the capabilities to take it to the next level with Total Security Integration. Now cameras can swing around and record every time a door is opened or closed. Visual alarms on security monitors when doors are held or forced open. Technologies to detect problems before that happen with video analytics. Total integration can now be achieved on a single monitor on one operating system.



Security Systems

With today's security systems, you can monitor and record activities while at home, in the office, or half-way around the globe. Enjoy peace of mind knowing that your property is being guarded day & night by the most sophisticated of technology. We can route the security system to a central monitoring station or alert you via text message of events that you set. And modern life safety systems can furnish not only property safety, but can provide in-home health monitoring, as well, for our aged loved ones.

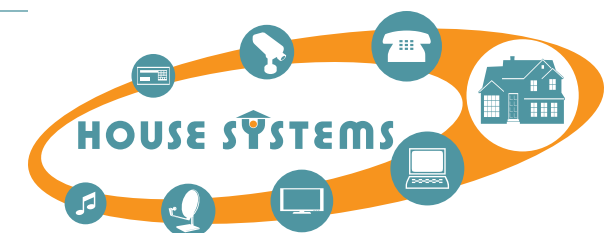


Extended Warranty

We offer peace of mind. Extended Warranty Service Programs deliver protection and peace of mind for the major investment you are making in your home or business. We offer plans that allow you to choose the level of protection and insurance that match the value you place in your system.



Our Services



1 Discovery Process

The project always begins with a discovery process, where we listen to our client's needs and desires. Our preliminary interviews are relaxed yet specific, as we endeavor to balance the desires of the client with the realities of technological trends, budget constraints and the client's project goals.

2 System Design

We put our engineering team to work to define all aspects of the project. Now that pertinent information has been gathered, a detailed proposal can be developed in accordance to these plans. An extensive set of drawings are created that show graphically where all hardware and pre-wire drops will be located. Our client is then delivered this information for review and annotation.

3 Implementation Process

Additional support documentation is created as the Rough and Trim phases commence. With the home interior primed, we begin the concluding phases, order the system gear, and schedule its installation. Our job is only complete when the client is 100% satisfied with the finished product. These final phases can take a few weeks or a few years depending on the project's scale.

4 Service & Support

We now thoroughly train our client in the use of their new system. Concurrently, a complete set of as-built documentation and programming source code is delivered at final sign-off. Opting for one of our annual maintenance agreements, the client can ensure that the investment they've made into their home or business is well protected and serviced for life with accuracy and diligence.

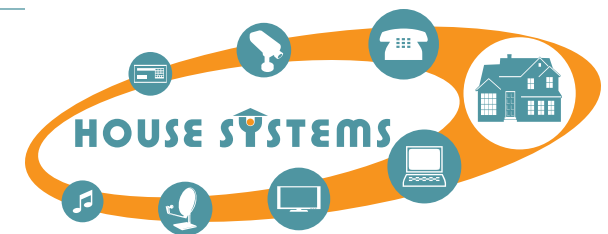


Our Process





Things To Consider



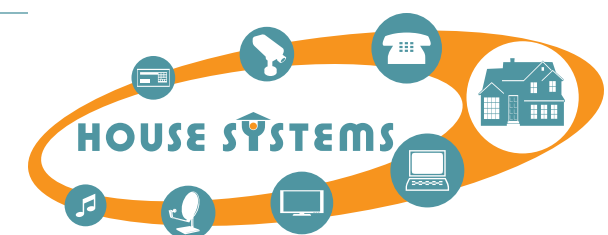


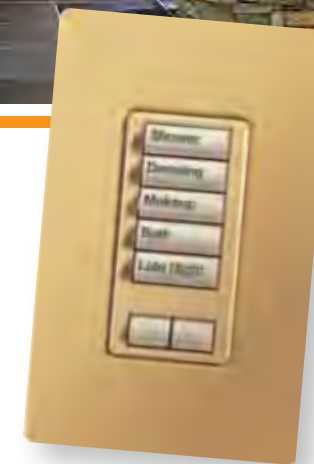
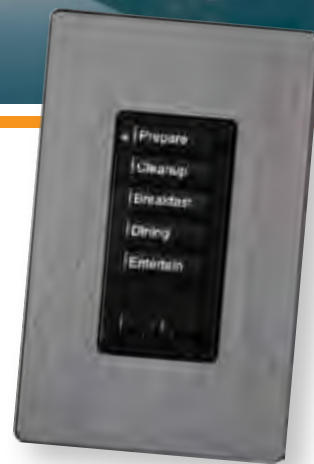
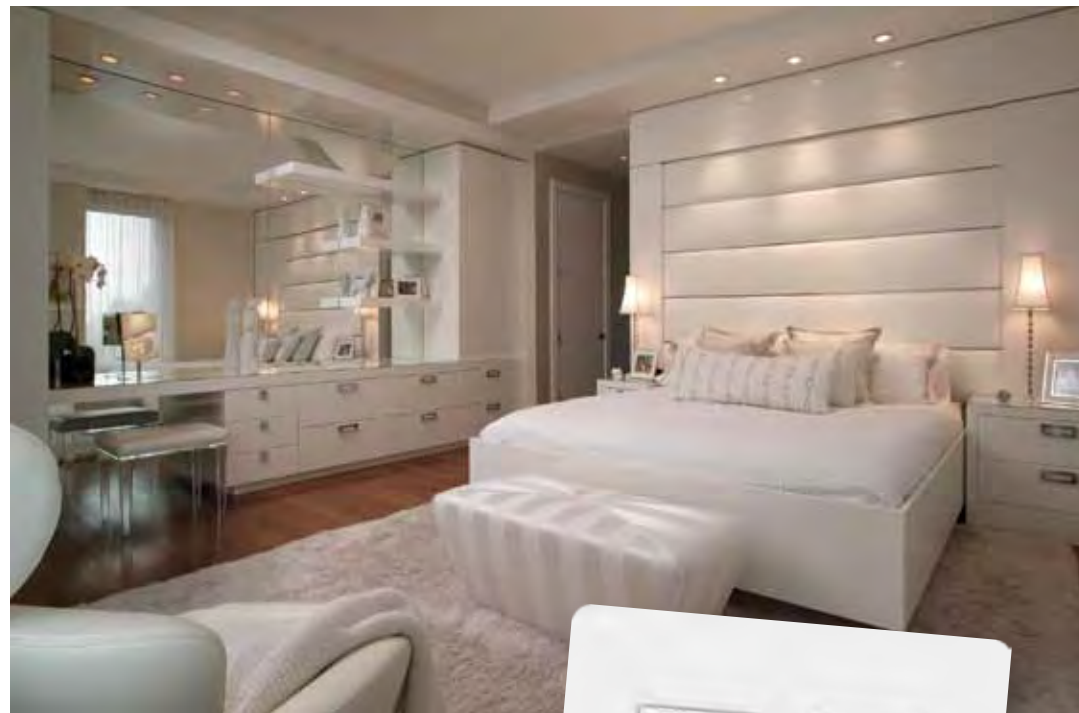
Why put all of these devices on your wall?



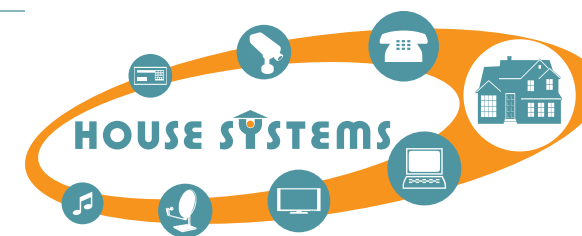
When you could simply have one elegant touch panel.

Wall Clutter





Lutron lighting is our premier lighting control platform, providing the most comprehensive and elegant solutions. For both new construction and retro projects!





Movies



Music



Media Server

Thanks to Wi-Fi, users are no longer confined by the cords that link their devices, enabling new levels of connectivity without sacrificing function or design options.



Common Household Wi-Fi Enabled Devices

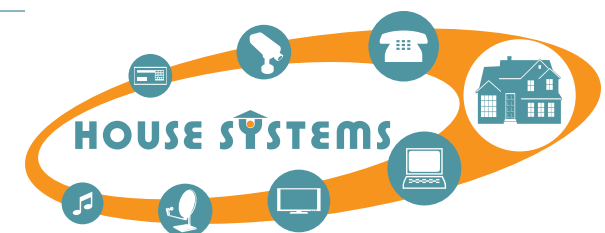


- New Construction
- Retrofit



Whole Home Networking

Thanks to Wi-Fi, users are no longer confined by the cords that link their devices, enabling new levels of connectivity without sacrificing function or design options.





Whether you are a corporate executive, security director, building facility manager, small business owner or head of household, security and life safety is your business. That is why House Systems offers a breadth of solutions to meet the widest range of needs. No matter what line of business you are in, House Systems is the smart choice.

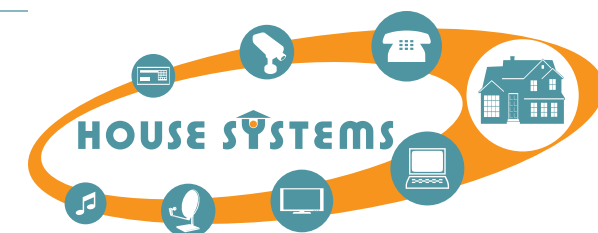
From home to industry to national security, House Systems covers the full spectrum of security and detection systems solutions, including high-tech video monitoring, Web-based surveillance systems, access control, fire alarm and life safety, commercial and residential intrusion detection.

- ✔ Door Stations
- ✔ Biometrics Scanners
- ✔ Magnetic Locks
- ✔ Push To Exit
- ✔ Proximity Sensors
- ✔ Gate Control



Access Control

Security Management & Automation Systems. Different access control technologies provide different levels of security. Combining proximity technology with biometrics yields the highest level of security by adding an extra layer of ID verification.





Green Automation

Green automation not only saves energy, it efficiently manages energy. We make "going green" easier than ever with fully customizable lighting, remotely controlled vacation mode and the ability to shut down an entire household's non-essential lights and appliances.



Energy Control and Efficiency

We offer a variety of affordable solutions for homeowners to monitor the energy use on every circuit of home, giving them visibility to where energy is being used – and wasted – and the ability to take action.



HVAC Control

Energy savings, comfort and convenience are just a few of the reasons to manage the HVAC systems in your home. Reduce the cost to heat and cool your home by adding smart sensors that will help you keep more green in your pockets.



Shading Control

Managing the natural light entering your home reduces the energy needed to cool your home. Automated window coverings based on time of day or seasonally protects artwork and furnishings from damaging UV rays while conserving energy.



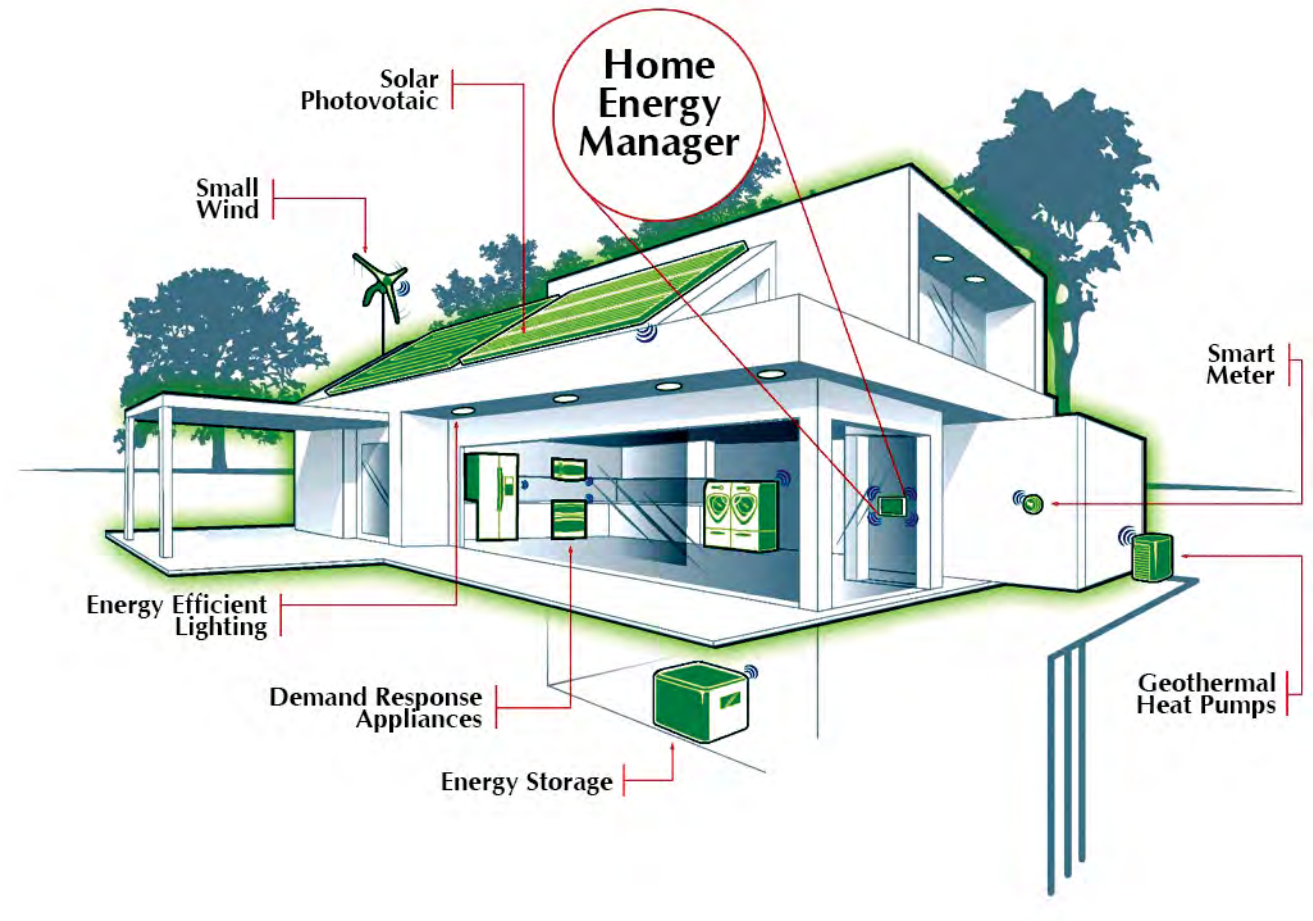
Lighting Control

Setting the desired mood can be achieved with the simple touch of a button. Never come home to a dark house again. Remove the clutter of light switches on your wall. Save energy by simply dimming the lights.



Vacation Mode

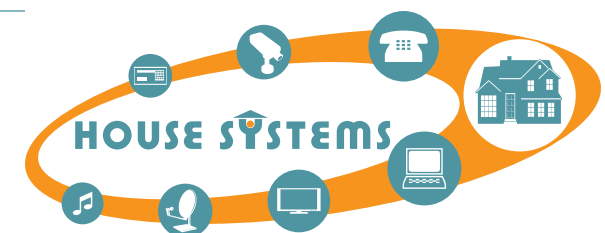
Secure, reliable and forward thinking, automated homes offer peace of mind whether your family is out to dinner or out of the country. Monitoring tools control your lighting, thermostat and security system, deterring unwanted visitors and reducing energy costs.



Energy Management At Your Fingertips

Total Home Energy Management

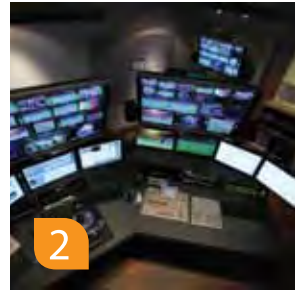
Feel empowered with the knowledge of how much energy you are consuming and/or creating to offset your usage. Always have access to this information at your fingertips.





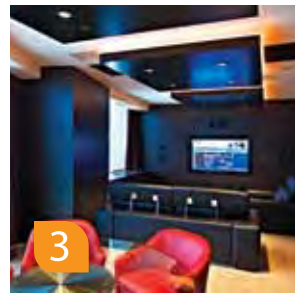
Common Areas

Audio, video and lighting control systems are a common requirement in most buildings. Key areas such as entry ways, lobbies, restaurants are all good candidates for technology solutions.



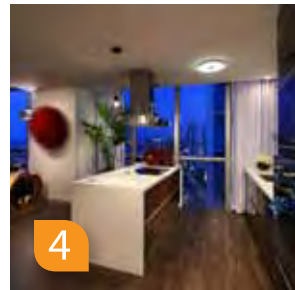
Building Infrastructure

Applicable to both common areas and building wide solutions, the necessary wiring infrastructure and conduit requirements are a key component of every successful fully integrated building technology solution.



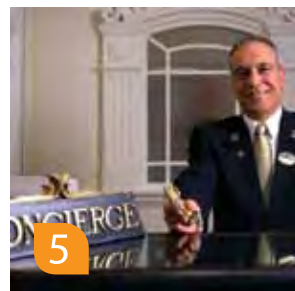
Audio/Video

Local systems may include a nice family room with surround sound and may extend to whole home music and distributed media systems. Solutions are available at almost every price point.



Lighting Control

Whether the project is new or retrofit, we have dimming systems fit for every application. Press one button to set the mood and turn your lights off from your iPhone are just a few of the solutions option available when your building is fully integrated.



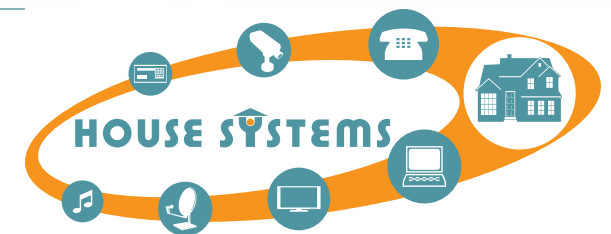
Concierge Services

A building wide concierge system is a powerful way to help manage the client experience. Touch panels located within each apartment can be used to call a guest's car or schedule a package delivery.



Integrated Building Technology

Whether a group is designing a mixed-space high-rise, a hospitality complex or an estate compound, there is a certain vision being pursued. When it comes to combining today's technologies with traditional amenities management the solution is half art and half science.



Technology Needs At Your Fingertips.

The House Systems Technology Concierge provides a whole host of technology-related services in your building or new development project.

RELATED

Use them for anything from setting up your wireless router, printer or network to troubleshooting a computer issue, from mounting your new flat screen TV to recovering data from your hard drive. Begin with a complimentary consultation to discuss your technology needs and then hire them to take care of anything on the robust menu of services:



- ✓ Home Networking: Wireless home network setup
- ✓ White Glove Technology: Moving service from a resident's existing home to their new Related home.
- ✓ TV Mounting Services
- ✓ TV Calibration: Precision Tuning for Residents' TVs
- ✓ Data Recovery, Hardware Repair, External Data Storage
- ✓ Consult and Competitive Merchandising: TV, speakers, computers, wiring

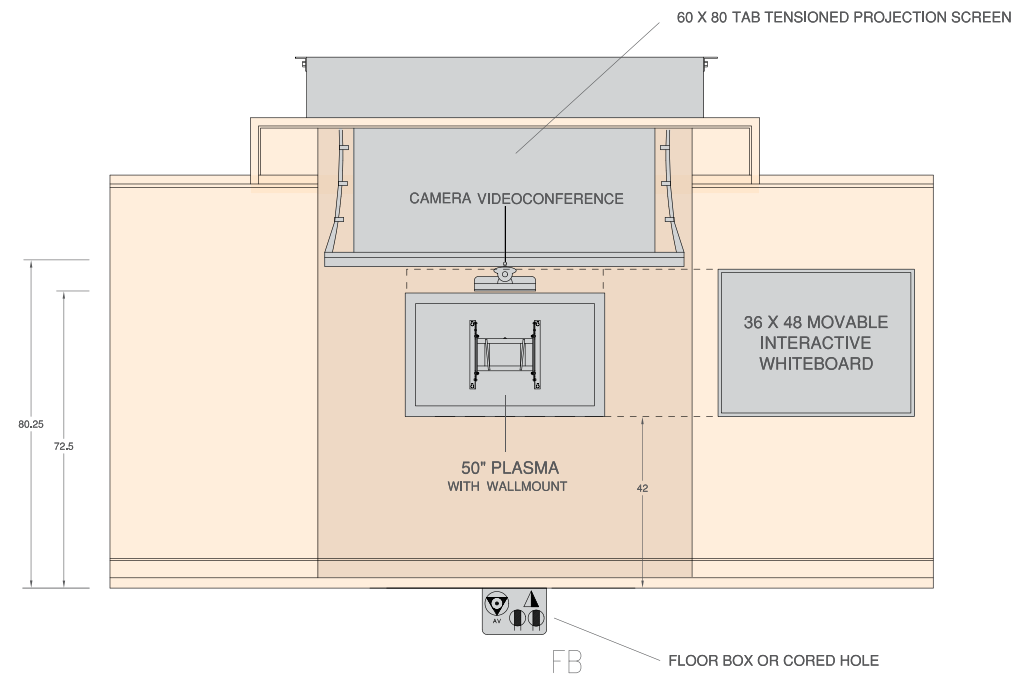


- ✓ Advanced IT Support
- ✓ TV and Home Theatre Setup
- ✓ Apple Device Integration: iPad, iPhone, iCloud, MacBook integration
- ✓ Wireless Audio Systems: Sonos
- ✓ Gaming: Xbox, Kinect, Wii, Playstation
- ✓ Remote Control Programming
- ✓ Help with networking, parental controls, proper functionality and safely transferring existing content to a new storage device

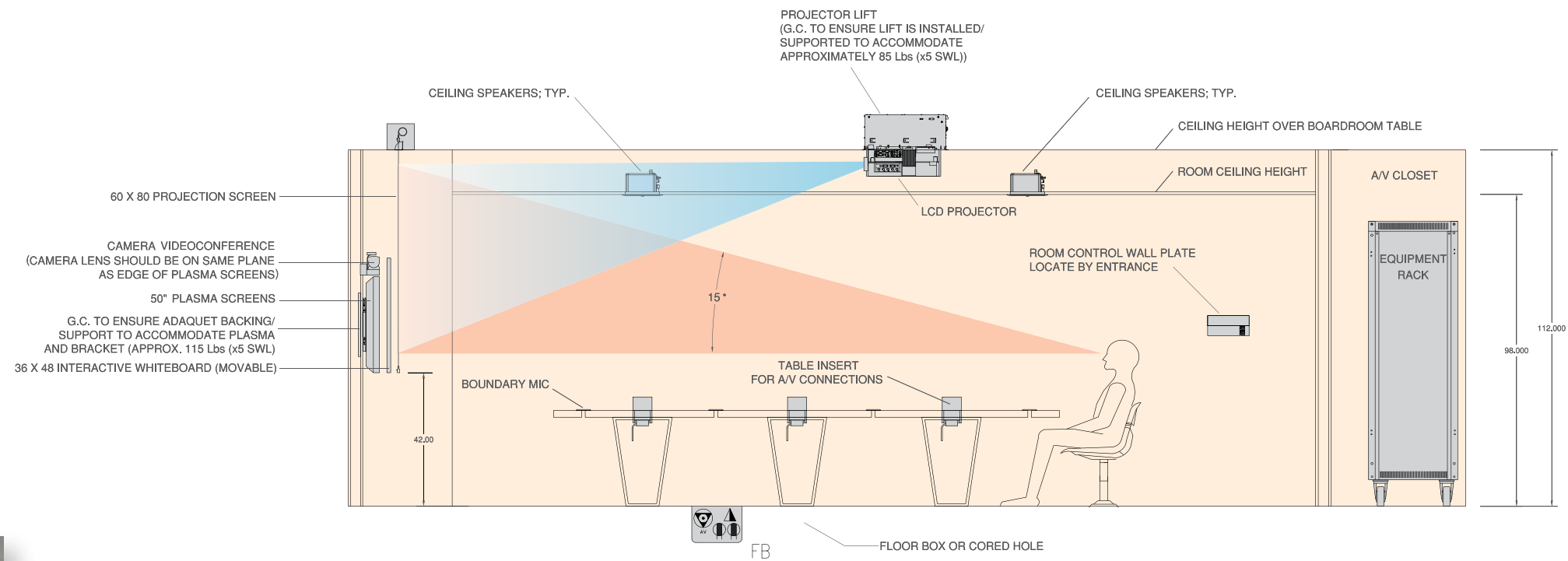


House Systems Technology Concierge
House Systems provides the latest technology options for your residence.





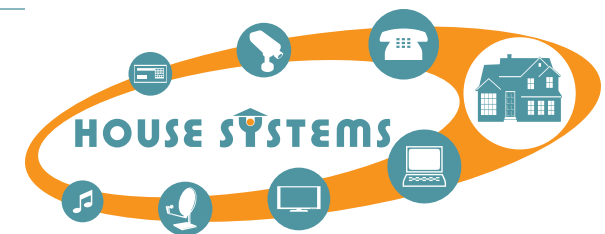
1 **ELEVATION VIEW OF RECESSED AV ALCOVE**
SCALE: NTS



2 **BOARDROOM ELEVATION VIEW**
SCALE: NTS



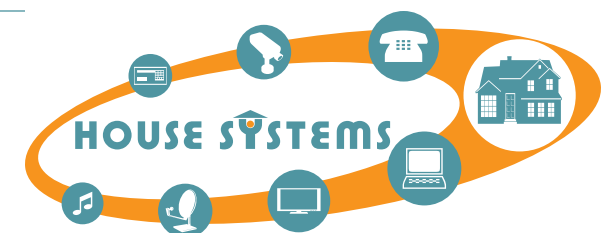
Commercial Application Office Boardroom
We offer a full compliment of audio/video solutions for commercial spaces.





Our Discovery Process

Our goal is to educate our clients on their options, and define their project scope and budget.



House Systems is dedicated to making sure the client's desires are outlined and understood prior to starting the system design. From initial concept to final construction, House Systems has procedures in place for thorough communication. We clearly document the client's scope of work requirements using detailed reporting methods. This process ensures that we are engineering a system based on the customer's goals for functionality, system aesthetics and performance.

PROJECT INFORMATION

Project Name: _____ Date: _____

Client Name: _____
 Billing Address: _____
 City/State/Zip: _____
 E-Mail: _____
 Home # _____
 Office # _____
 Mobile # _____
 Fax # _____
 Main Project Contact: _____
 Title/ Position: _____
 E-Mail: _____
 Phone # _____

GENERAL SCOPE OF WORK (manuf./notes)
 *Audio Distribution:
 Speaker Choice: _____
 Control Options: _____
 *Video Distribution:
 direct wire room box balun
 *Lighting Control System:
 centralized local hybrid
 full partial
 Budget Estimate: _____
 Standard Keypad: _____
 Color Choice: _____
 *Telephone System:
 P.O.T.S. voicemail
 Wireless Network: _____
 Security System: _____
 *Security Camera System: _____
 HVAC Integration: _____
 centralized local monitored
 *Motorized Window Treatments: _____
 Power Conditioning: _____
 local centralized
 Other: _____
 *list sub-system zones on system notes page

JOB SITE INFORMATION
 Address: _____
 City/State/Zip: _____

PERMIT INFORMATION
 Main Permit # _____
 Permit Location: _____
 Permit Office Phone: _____

PROJECT SCHEDULE (estimated)
 Pre-Wire Start: _____
 Trim Start: _____
 Final Start: _____
 Final Finish: _____
 Programming Finish: _____

SIGNAL DISTRIBUTION
 DSS XM iPod
 FM Sirius Media Manager
 CATV CCTV Other: _____

OTHER SYSTEMS INTEGRATION
 Pool Control Weather Station
 Fountain Control Garage Door Opener
 Fireplace(s) Gas Lighting Fixtures
 Other: _____

INTEGRATOR STAFF
 Main Integrator Contact: _____
 Title/ Position: _____
 E-Mail: _____
 Phone # _____
 Sales Person: _____
 Project Manager: _____
 Reviewing Engineer: _____
 Other: _____

NOTES ON CLIENT EXPECTATIONS

GENERAL SYSTEMS INFORMATION
 Budget Estimate \$ _____
 Type of Client: Budget Average Premium
 Quality Level: Low Medium High

Initials _____ Copyright 2010 FDG, Inc. page 1 of _____

SYSTEM NOTES

Project Name: _____ Date: _____

AUDIO DISTRIBUTION (rooms ON the system)
 1. _____ KP TP 9. _____ KP TP 17. _____ KP TP
 2. _____ KP TP 10. _____ KP TP 18. _____ KP TP
 3. _____ KP TP 11. _____ KP TP 19. _____ KP TP
 4. _____ KP TP 12. _____ KP TP 20. _____ KP TP
 5. _____ KP TP 13. _____ KP TP 21. _____ KP TP
 6. _____ KP TP 14. _____ KP TP 22. _____ KP TP
 7. _____ KP TP 15. _____ KP TP 23. _____ KP TP
 8. _____ KP TP 16. _____ KP TP 24. _____ KP TP

VIDEO DISTRIBUTION (rooms ON the system)
 1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____
 7. _____
 8. _____

LIGHTING CONTROL (rooms NOT on the system)
 1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____
 7. _____
 8. _____

TELEPHONES (rooms WITH phones)
 1. _____ wireless 9. _____ wireless 17. _____ wireless
 2. _____ wireless 10. _____ wireless 18. _____ wireless
 3. _____ wireless 11. _____ wireless 19. _____ wireless
 4. _____ wireless 12. _____ wireless 20. _____ wireless
 5. _____ wireless 13. _____ wireless 21. _____ wireless
 6. _____ wireless 14. _____ wireless 22. _____ wireless
 7. _____ wireless 15. _____ wireless 23. _____ wireless
 8. _____ wireless 16. _____ wireless 24. _____ wireless

MOTORIZED WINDOW TREATMENTS (rooms ON the system)
 1. _____ solar blackout drapes
 2. _____ solar blackout drapes
 3. _____ solar blackout drapes
 4. _____ solar blackout drapes
 5. _____ solar blackout drapes
 6. _____ solar blackout drapes
 7. _____ solar blackout drapes
 8. _____ solar blackout drapes
 9. _____ solar blackout drapes
 10. _____ solar blackout drapes
 11. _____ solar blackout drapes
 12. _____ solar blackout drapes
 13. _____ solar blackout drapes
 14. _____ solar blackout drapes
 15. _____ solar blackout drapes

SECURITY CAMERAS (locations WITH cameras)
 1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____
 7. _____
 8. _____

NOTES (anything extra)

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ROOM SPECIFICATION

Project Name: _____ Date: _____
 Room Name/Number: _____ Level: Basement 1st 2nd 3rd Other

VIDEO COMPONENTS
 TV/Monitor manuf/model: _____
 type: plasma LCD CRT
 mount: stand static pole
 tilt articulating motorized
 location: wall ceiling cabinet
 Projection System
 Projector manuf/model: _____
 location: front rear
 floor ceiling
 Screen manuf/model: _____
 material: soft (fabric) hard (glass/polyester/boonaa)
 type: fixed motorized curved
 horz-mask vert-mask perforated

SPEAKERS pre-wire only
 Left :: Center :: Right manuf/model: _____
 amp: active passive
 location: in-ceiling in-wall book shelf
 on-wall floor standing
 Side Surrounds manuf/model: _____ qty: _____
 amp: active passive
 location: in-ceiling in-wall book shelf
 on-wall floor standing
 Rear Surrounds manuf/model: _____ qty: _____
 amp: active passive
 location: in-ceiling in-wall book shelf
 on-wall floor standing
 Subwoofer manuf/model: _____ qty: _____
 amp: active passive
 location: in-ceiling in-wall in-floor in-room

INTERFACE TYPE pre-wire only
 Audio Keypad transport numerical
 Touch Screen in-wall tabletop
 (see interface functionality matrix for control details)
 Volume Control Rotary sliding
 Hand-held RF/wi-fi IR manuf. supplied
 trim color: _____
 manuf/notes: _____

AUDIO COMPONENTS Remote Located
 Receiver Separates
 Audio Mode SS 7.1 SS 5.1 2 Ch
 manuf/notes: _____

SOURCES
 CATV remote shared
 direct receiver cable card
 (cable t.v. receivers supplied by client)
 DSS remote shared DVR
 manuf/model: _____
 DVD remote shared
 standard hi-def recorder
 manuf/model: _____
 Media Manager remote shared
 movies music
 manuf/model: _____
 iPod remote shared pre-wire only
 audio video
 in-wall table top
 manuf/model: _____
 Other remote shared
 manuf/model: _____

POWER QUALITY
 Surge Protection Battery Back-Up
 Conditioning/Stabilization
 manuf/notes: _____

EQUIPMENT RACK
 Pullout Rack Cabinet Shelves (by others)
 Freestanding Static In-Cabinet Rails

OTHER DISCIPLINES
 Custom Cabling Star Ceiling
 Game Console Other: _____

NOTES ON CLIENT EXPECTATIONS

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PROJECT DIRECTORY

Project Name: _____ Date: _____

PROPERTY MANAGER:
 Company Name: _____
 Contact Name: _____
 Position: _____
 Address: _____
 City/State/Zip: _____
 E-mail: _____
 Office Phone # _____
 Cell Phone # _____
 Fax # _____

BUILDER/DEVELOPER:
 Company Name: _____
 Contact Name: _____
 Position: _____
 Address: _____
 City/State/Zip: _____
 E-mail: _____
 Office Phone # _____
 Cell Phone # _____
 Fax # _____

ARCHITECT:
 Company Name: _____
 Contact Name: _____
 Position: _____
 Address: _____
 City/State/Zip: _____
 E-mail: _____
 Office Phone # _____
 Cell Phone # _____
 Fax # _____

ELECTRICIAN:
 Company Name: _____
 Contact Name: _____
 Position: _____
 Address: _____
 City/State/Zip: _____
 E-mail: _____
 Office Phone # _____
 Cell Phone # _____
 Fax # _____

CABINET BUILDER:
 Company Name: _____
 Contact Name: _____
 Position: _____
 Address: _____
 City/State/Zip: _____
 E-mail: _____
 Office Phone # _____
 Cell Phone # _____
 Fax # _____

LIGHTING DESIGNER:
 Company Name: _____
 Contact Name: _____
 Position: _____
 Address: _____
 City/State/Zip: _____
 E-mail: _____
 Office Phone # _____
 Cell Phone # _____
 Fax # _____

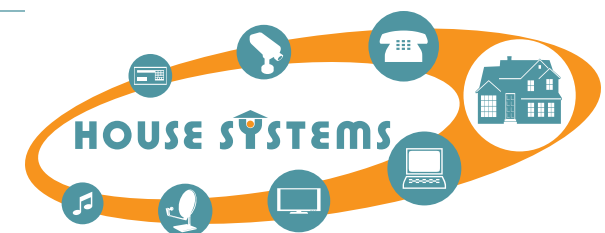
SECURITY CONSULTANT:
 Company Name: _____
 Contact Name: _____
 Position: _____
 Address: _____
 City/State/Zip: _____
 E-mail: _____
 Office Phone # _____
 Cell Phone # _____
 Fax # _____

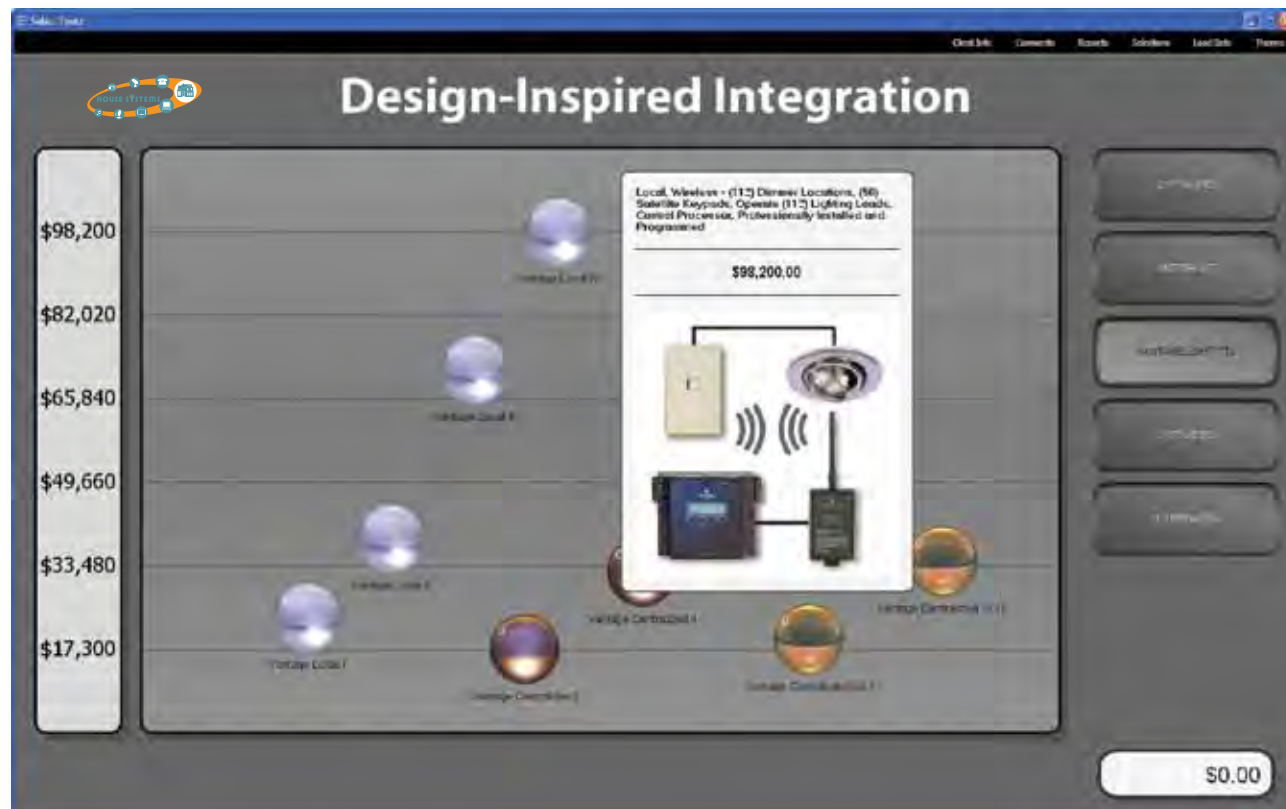
INTERIOR DESIGNER:
 Company Name: _____
 Contact Name: _____
 Position: _____
 Address: _____
 City/State/Zip: _____
 E-mail: _____
 Office Phone # _____
 Cell Phone # _____
 Fax # _____

OTHER:
 Company Name: _____
 Contact Name: _____
 Position: _____
 Address: _____
 City/State/Zip: _____
 E-mail: _____
 Office Phone # _____
 Cell Phone # _____
 Fax # _____

Initials _____ Copyright 2010 FDG, Inc. page _____ of _____

Project Intake Package





- ✔ Project Scope Definition.
- ✔ Project Budget Definition.

Thursday, 08/13/2009, 03:07 PM

CLIENT INFORMATION

Client Name: Mr. Smith
 E-Mail:
 Home Address: Job-site Address:

Home Phone: 555-555-1234
 Work Phone:
 Mobile Phone: 555-555-5678

SYSTEM SUMMARY

NAME	DESCRIPTION	QTY	PRICE
6 Zone DIST AUDIO	6 Zone (Entry Level) Switcher/Amplifier/Control Processor, AM/FM/XM tuner, Professionally installed in Rack with Power Line Conditioning	1	\$10,000.00
8 - Zone Analog DIST VIDEO	(1) 8 source, 8 zone video switcher, (8) Room Control boxes, (4) HD Sat Receivers, (4) Network Clients, Professionally installed in Rack with Power Line Conditioning and Cooling System	1	\$57,600.00
Centralized III LIGHTING CTRL	Centralized - (50) 8-Button Decorator Keypad Locations, Operate (80) Lighting Load Circuits, 62" Panel, Control Processor, Professionally Installed and Programmed	1	\$79,300.00
Level II NETWORK	16 zone - (1) Router / 16-Port Switch, (6) Wireless Access Points, (10) Additional Wired Outlets, Professionally installed in Rack with Battery Back Up and Surge Protection	1	\$12,200.00
Level I CCTV	9 Channel - (1) 9 Input DVR, 600 GB Storage, Professionally installed and Programmed	1	\$9,900.00
Camera A CCTV	Fixed, Color, Bullet, 1/2" CCD, IR Illuminator, Professionally installed and Programmed	5	\$700.00

PROPOSED PROJECT BUDGET RANGE

\$146,625.00 to \$172,500.00

DESIGN DEPOSIT

\$5,030.00

AGREEMENT

We believe we have accurately captured the important points of our discussion. If you are satisfied with the general scope of the project & feel the above prices are appropriate and in accordance with your budget, we shall design, engineer, & produce a detailed plan to achieve your project's goals.

Upon receipt of the Design Deposit (shown above as a non-refundable fee for the production costs incurred) we shall custom design a complete system & deliver a full set of documentation. Once the initial documentation is produced, we can make adjustments to fine-tune the details as necessary to further dial-in your budget and functionality requirements.

At the completion of the Design Phase you shall own the documents produced.

Owner's Signature (or representative thereof) _____ Date _____

Integrator's Signature _____ Date _____

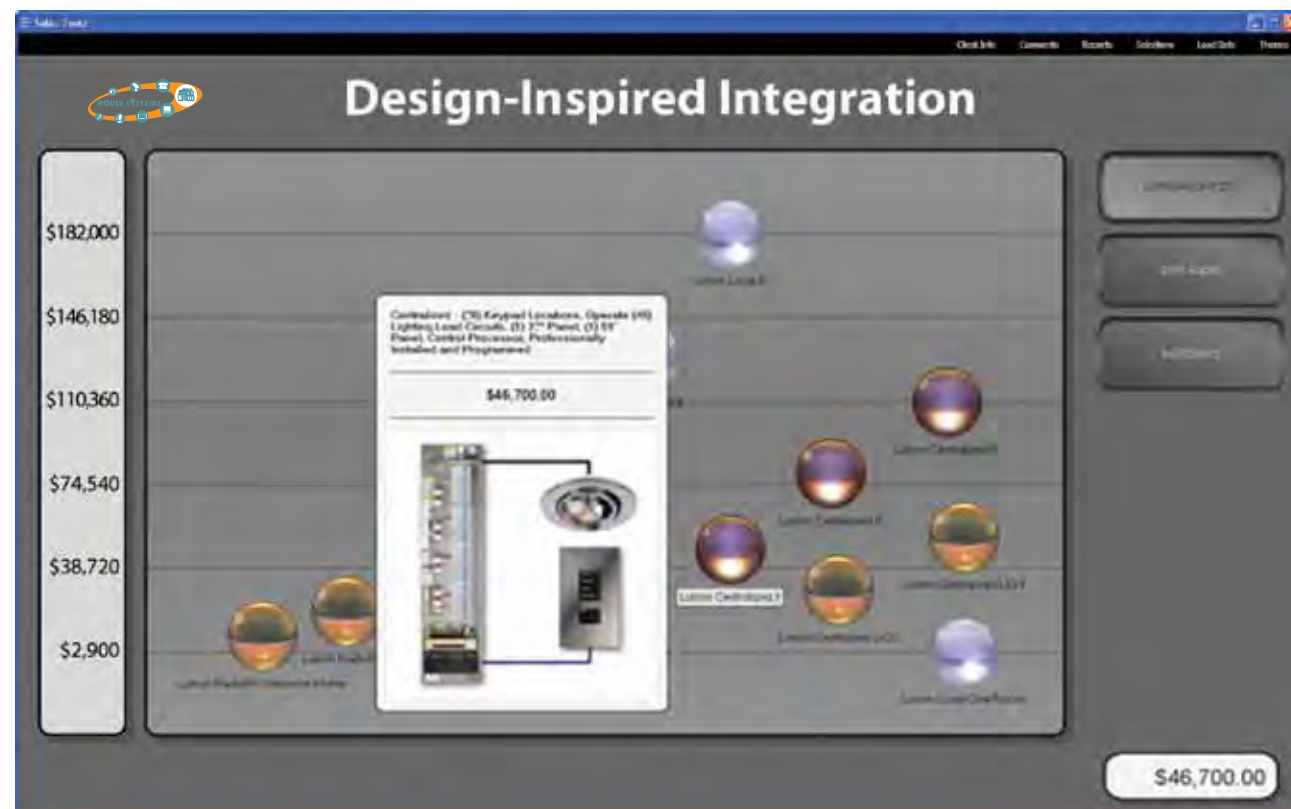
* Construction documents shall include the following:
 (as applicable to your project)

- Complete System Proposal
- Detailed Budget Summary
- Drawing Set including the following
 - Device Location Drawing(s)
 - Low-Voltage Pre-Wire Drawing(s)
 - Lighting Control System Drawing(s)
 - Motorized Window Treatment Drawing(s)
 - Surveillance Camera System Drawing(s)
 - Security System Drawing(s)

COMMENTS

Client notes:

Mr. Smith expressed desire to keep budget below \$200K if possible.



Discovery Phase

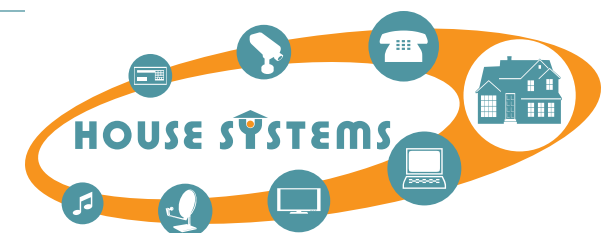
We use software loaded with predesigned systems to aid in the defining of budget and scope for our client projects.






Our Design Process

Our goal is to design and effectively communicate the best solution that meets the project scope and budget requirements.





HOUSE SYSTEMS

SMART SOLUTIONS FOR FINE LIVING

Example Residence v.1

project directory	
client representative	interior designer
Company:	Company:
Address:	Address:
Contact:	Contact:
Phone:	Phone:
Mobile:	Mobile:
E-mail:	E-mail:
Fax:	Fax:
architect	builder (general contractor)
Company:	Company:
Address:	Address:
Contact:	Contact:
Phone:	Phone:
Mobile:	Mobile:
E-mail:	E-mail:
Fax:	Fax:
electrician	mechanical contractor
Company:	Company:
Address:	Address:
Contact:	Contact:
Phone:	Phone:
Mobile:	Mobile:
E-mail:	E-mail:
Fax:	Fax:
security contractor	millwork contractor
Company:	Company:
Address:	Address:
Contact:	Contact:
Phone:	Phone:
Mobile:	Mobile:
E-mail:	E-mail:
Fax:	Fax:
landscape contractor	other
Company:	Company:
Address:	Address:
Contact:	Contact:
Phone:	Phone:
Mobile:	Mobile:
E-mail:	E-mail:
Fax:	Fax:

drawing set index legend

Note: Drawing set may not include all sheets listed

(G) general information section	
G-0 COVER SHEET	G-0-A CONTROLS INTERFACE INDEX
G-0-1 FINAL PLATE INDEX	G-0-2 CAMERA INSTALLATION NOTES

(XX) typical section pagination	
XX-0, 0.1, 0.2, 0.3 - BASEMENT LEVEL	D-4.1, 0.2, 0.3 - INTERIORS
XX-1, 1.1, 1.2, 1.3 - FIRST LEVEL	D-4.1, 1.1, 1.2, 1.3 - JACK ELEVATORS
XX-2, 2.1, 2.2, 2.3 - SECOND LEVEL	D-2.1, 2.2, 2.3 - BLOCK DIAGRAMS
XX-3, 3.1, 3.2, 3.3 - THIRD LEVEL	D-3.1, 3.2, 3.3 - DEVICE ASSIGNMENT DRAWINGS
XX-4, 4.1, 4.2, 4.3 - FOURTH LEVEL	D-4.1, 4.2, 4.3 - PROJECTION SYSTEM WALLS
XX-5, 5.1, 5.2, 5.3 - SIXTH LEVEL	D-5.1, 5.2, 5.3 - PICTURE ASSIGNMENTS

(I) installation detail section	
I-0-1, 0.1, 0.2, 0.3 - INTERIORS	I-1-1, 1.1, 1.2, 1.3 - LIGHTING INTERFACES
I-0-1, 0.1, 0.2, 0.3 - INTERIORS	I-1-2, 2.1, 2.2, 2.3 - LIGHTING LOAD PLAN
I-0-1, 0.1, 0.2, 0.3 - INTERIORS	I-1-3, 3.1, 3.2, 3.3 - WINDOW TREATMENTS
I-0-1, 0.1, 0.2, 0.3 - INTERIORS	I-1-4, 4.1, 4.2, 4.3 - SECURITY
I-0-1, 0.1, 0.2, 0.3 - INTERIORS	I-1-5, 5.1, 5.2, 5.3 - VIDEO SURVEILLANCE

drawing acceptance	
client name (print)	date:
authorized signature: X	
installer name (print)	date:
authorized signature: X	

Example Residence v.1	Cover Sheet	G-0.1
-----------------------	-------------	-------

HOUSE SYSTEMS
7 West 85th Street
2nd Floor
New York, NY 10021
Suite 400

Sales: 212-675-9538
Fax: 212-645-8234
Email: sales@housingsystems.com

PROJECT NUMBER: 111
VERSION CONTROL

DATE: 01/11/2011
PROJECT: 111-111111
DATE: 01/11/2011

SCALE: NOT TO SCALE
PREPARED BY: SP

Drawing Sheet Cover

We provide our customers with a complete set of drawings during every phase of the project. In the beginning, we help you understand our text proposal by also providing engineering drawings showing you the locations of all devices within the system. At the completion of the project you will also receive an “As-Built” set of engineering drawings for your records.





Color Legend

- Prefix: M for Multimedia
- Prefix: V for Video
- Prefix: A for Audio
- Prefix: C for Control
- Prefix: D for Data
- Prefix: T for Telephone
- Prefix: L for Lighting
- Prefix: * for HVAC
- Prefix: P for Power
- Prefix: * for CCTV
- Prefix: RF for CATV
- Prefix: F for OSS
- Prefix: S for Security

PREFIX IS DETERMINED BY THE USE OF THE WIRE ATTACHED

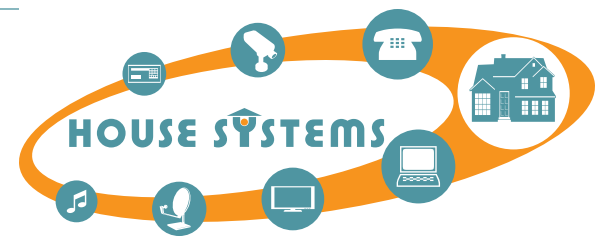
DEVICE LOCATION LEGEND

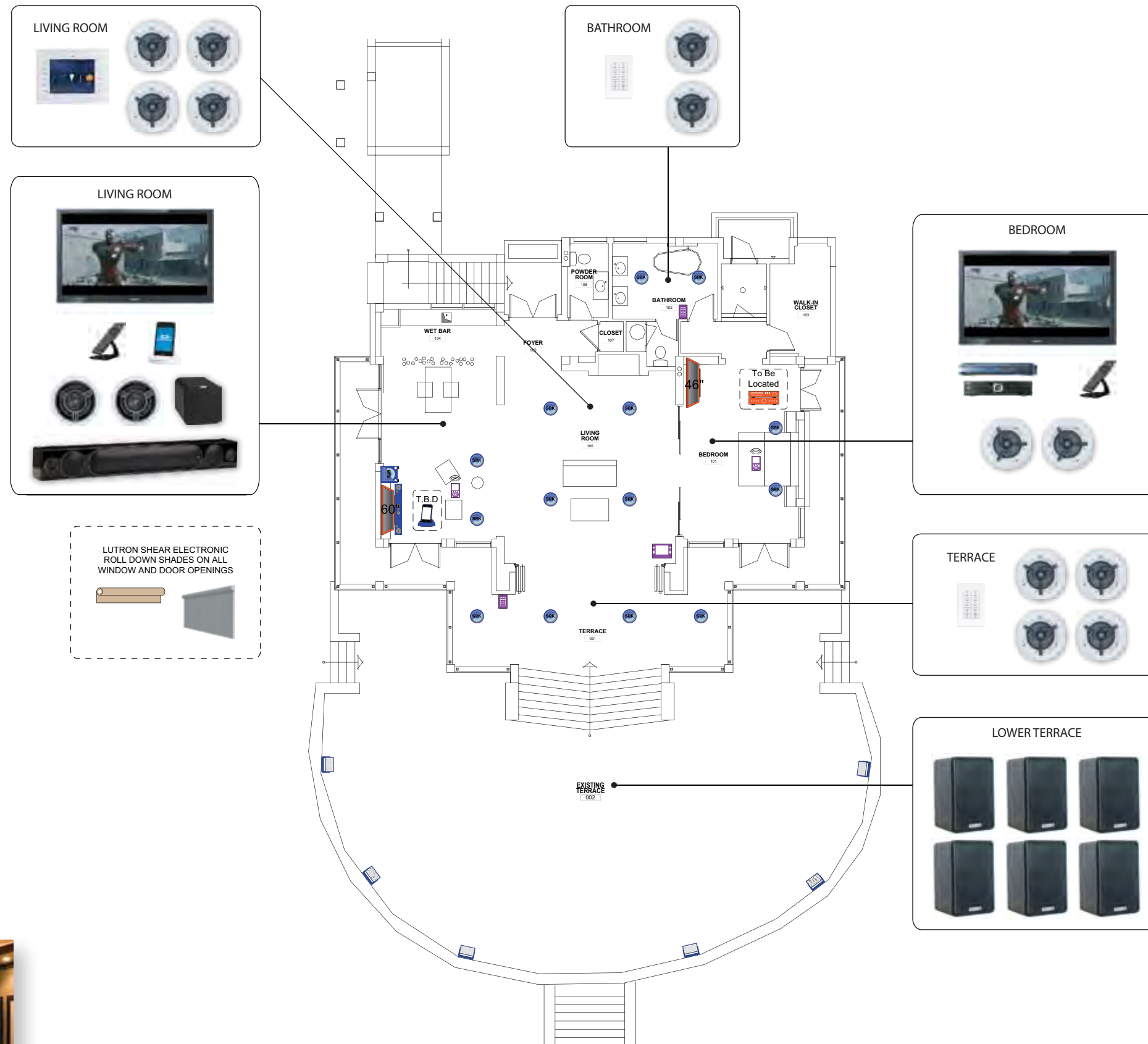
- Bug Screen
- Solar Shade
- Black- Out Shade
- Local Lighting Control Switch (120v)
- Lighting Motion Detector
- Hidden/Invisible Speaker
- Planter Subwoofer
- Planter Speaker
- In-ceiling Square Speaker
- On-wall Outdoor Speaker
- Wireless Microphone
- Audio In/output Plate
- Large Touchpanel
- Small Touchpanel
- Water Proof Remote
- Hand Held Remote
- In-wall Audio Keypad
- Water Sensor
- Multimedia Input (Games)
- Video Projector
- Video Display
- Video Display With On-Display Speakers
- Wireless IP Phone
- Standard IP Phone
- Large Video IP Phone
- Wireless Network
- Cell Repeater
- Communications Pre-wire location. (phone or data)
- Door Phone Interface
- Security Contact Location
- x117 GENIUS LOCK
- Control Location With Door Number.



Device Location Drawing

Displays the location for every low voltage wiring drop based on hardware requirements. Used primarily during the sales phase of the project to convey information to our future customer.





System Highlights Diagram

We try to help our clients understand our unique approach to their project by illustrating their floor plan with icons and images.



INTERFACE FUNCTIONALITY MATRIX



Job/Customer: Sample
Date: 2/20/2012

Room	Device	View		Global Sub-System Control										Local Sub-System Control										
		Table View	Map View	Distributed Audio Control	Lighting Control	HVAC Monitoring	HVAC Control	Garage Door Monitoring	Garage Door Control	Security System Monitoring	Security System Control	Security Camera Monitoring	Motorized Window Treatment	Hurricane Shutters	Pool/Spa/Water Features	Distributed Audio Control	Lighting Control	HVAC Monitoring	HVAC Control	Garage Door Monitoring	Garage Door Control	Security System Monitoring	Motorized Window Treatment	Pool/Spa/Water Features
Corridor	iPod	x		x	x	x	x			x	x	x	x											
Bedroom	iPad														x									
Bedroom #4	iPod														x	x	x						x	
Bath #4	iPod														x	x	x	x					x	
Living Room	iPad		x	x	x	x	x			x	x		x											
Lounge	iPad		x	x	x	x	x			x	x		x											
Great Room	iPad		x	x	x	x	x			x	x		x											
Kitchen	Touch TV		x	x	x	x	x	x	x	x	x	x	x	x										
Breakfast	iPod																							
Breakfast	iPod	x													x	x	x	x						x
Media Room	iPad		x	x	x	x	x			x	x	x	x											
Master Bedroom	iPad		x	x	x	x	x			x	x	x	x											
Master Bedroom	iPad	x		x	x	x	x	x	x	x	x	x	x	x										
Master Bath	Touch TV														x									
Master Bath	iPod														x	x	x	x						x
Master Bath #2	iPod														x	x	x	x						x
His Study	iPad		x	x	x	x	x	x	x	x	x	x	x											
His Study	iPad		x	x	x	x	x			x	x	x	x											
Her Study	iPad		x	x	x	x	x			x	x	x	x											
Gym	iPod														x									x
Gym	iPod														x	x	x	x						x
Bath	iPod														x	x	x	x						x
Bedroom #2	iPad																							
Bedroom #3	iPad														x	x	x	x						x
Bath #2	iPod														x	x	x	x						x
Head End			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x						

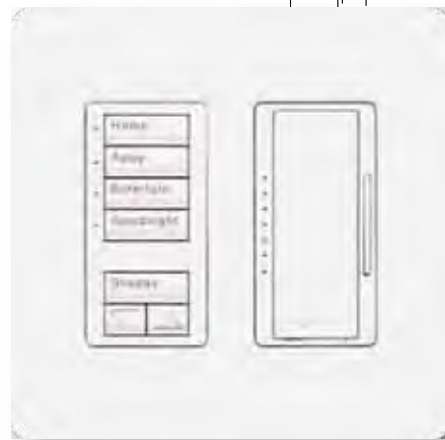
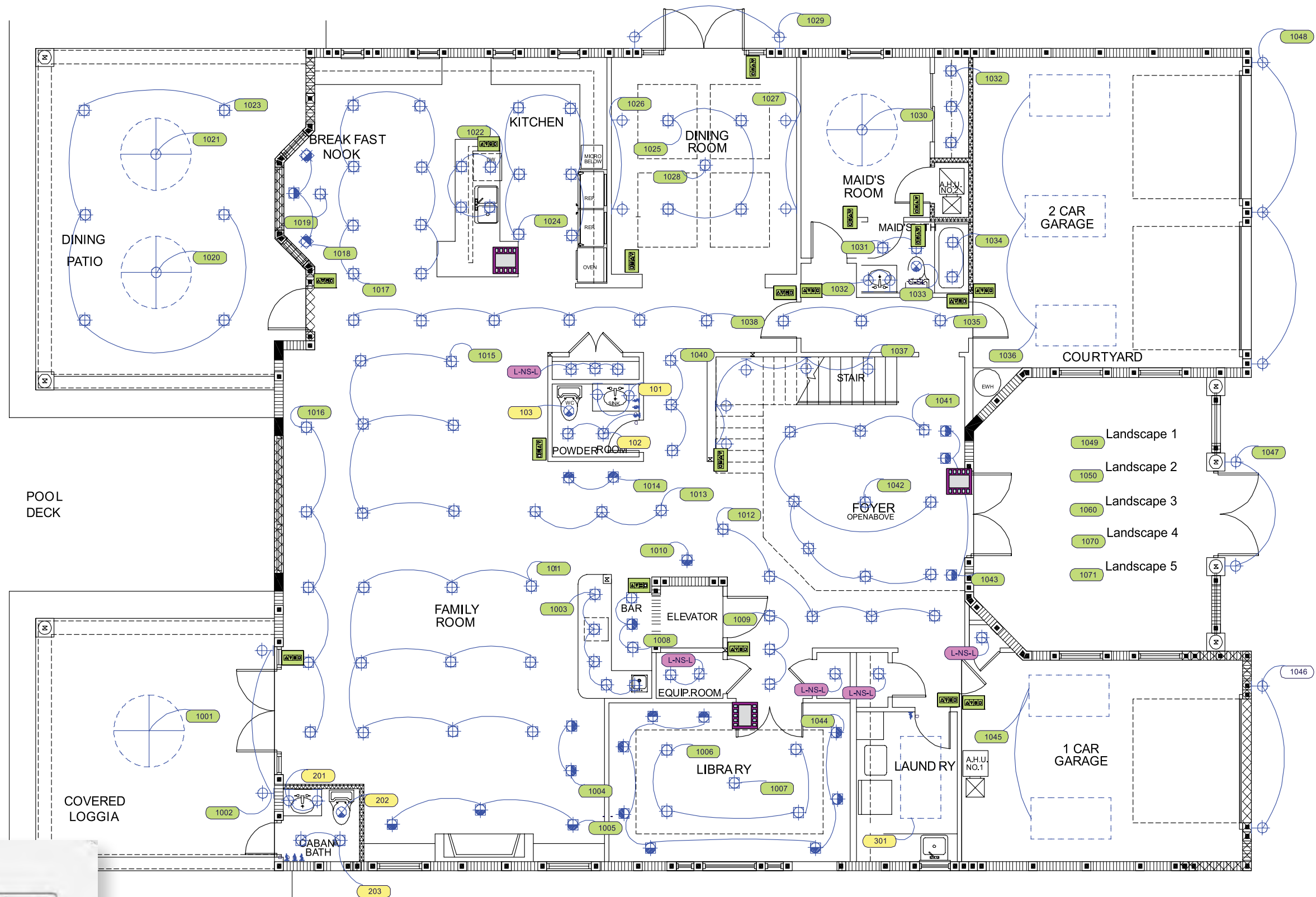
© Copyright FDG, Inc. 2012



Interface Functionality Matrix

This chart is used to document the functional requirements for every touch panel designed into the system.





Load Identification Plan

We provide a detailed drawing that shows every lighting load in a project and the method of control that will be utilized. The customer will know which loads are on the system and which loads have been left out of the system design.





Example Residence v.1



SMART SOLUTIONS FOR FINE LIVING

HOUSE SYSTEMS

7 West 18th Street
7th Floor
New York, NY 10011

Tel: 212-675-5938
Fax: 212-645-8314

Website: www.houseystems.net

Example Residence v.1

Proposal

PRODUCT DESCRIPTION QTY PRICE

CRESTRON PW-1215

Power Supply - Power Pack, Wall, 12VDC, 1.5A, 120WAC, ea.



1 \$50.00

CRESTRON TPS-6X

Touch Screen - Igo™ 3.7" WiFi (IEEE 802.11) Tablet Touch Screen, Featuring: Five-Way Thumbpad, Eight (8) Softkey Programmable Buttons (Includes: One (1) Battery and One (1) Docking Station) (Black), ea.



1 \$3,200.00

CRESTRON TPS-6X-BTP

Battery - Replacement Pack for TPS-6X, Contains a NiMH Rechargeable Lithium Ion (Li-Ion) Battery, ea.



1 \$300.00

CRESTRON TPS-6X-D5 (INCLUDED)

Docking Station - Charger included with TPS-6X Touch Panel (Black), ea.



1

CRESTRON TPS-6X-IMCW (INCLUDED)

Interface Module - 1-Gang, Wall Plate, TPS-6X-D5 Interface, Wall Plate Connection included with TPS-6X-D5, ea.



1

CRESTRON TPS-IMCW

Interface Module - Interface Module for TPS-6X, ea.



1

CUSTOM ENGRAVING CONTROL ENGRAVING-60

Custom Button and (or) Faceplate Engraving for Control Interface (Touch Panel, Keypad, etc.), ea.



1 \$85.00

DENON AVR-2308CI

Surround - 7.1, Digital Receiver, 1080p Deep Color™ (36 bit) HDMI (with Upconversion from Analog Source Inputs), XM™ Radio Ready, Two (2) Zone (Dolby True HD™/Dolby Digital Plus™/dts-HD Master Audio™/dts-High Resolution-Audio™ Decoding), 100W x 7 (Black), ea.



1 \$849.00

Proposal Release:

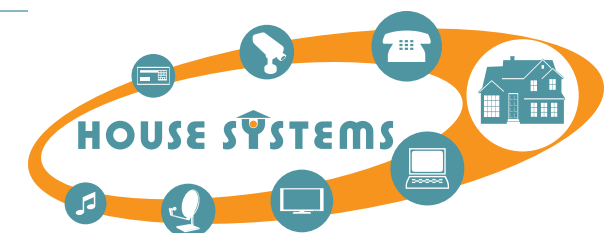
HOUSE SYSTEMS

Page 4



Sample Project Proposal

We provide our clients with detailed system design proposals that outline every piece of hardware required to properly execute the project. We detail this information with breakdowns for every room and area.



Equipment Summary

Audio Video & Control System:	\$30,000.00
Home Theater Interior Buildout:	\$3,000.00
Data Network:	\$600.00
Telecommunications:	\$2,500.00
Infrastructure Wire & Trim:	\$9,000.00
Lighting Control/Integration:	\$9,000.00
Window Treatments/Integration:	\$5,000.00
Climate Control/Integration:	\$900.00
Security System/Integration:	\$1,200.00
Video Surveillance System/Integration:	\$1,500.00
Additional System(s)/Integration:	\$500.00
Subtotal:	\$63,200.00
* Miscellaneous Consumables:	\$1,200.00
Landing Surcharges:	\$0.00
Equipment Sales Tax:	\$4,186.00
Subtotal:	\$68,586.00

* "Miscellaneous Consumables" includes the difficult to track minor parts required to properly complete a job. (i.e.: tie wraps, grommets, bolts/nuts/ washers, etc...)

Labor Breakdown

1	Engineer(s) Aprox.	5.1	Day(s)
1	Manager(s) Aprox.	4.1	Day(s)
2	Technicians(s) Aprox.	4.0	Day(s)
2	Technicians(s) Aprox.	8.0	Day(s)
2	Technicians(s) Aprox.	4.6	Day(s)
1	Programmer(s) Aprox.	10.0	Day(s)

Labor Summary

Engineering Labor:	\$5,143.00
Project Management Labor:	\$3,146.00
Rough-In Labor	\$6,100.00
Trim labor:	\$9,200.00
Finish Labor:	\$7,000.00
Programming Labor:	\$10,000.00
Subtotal:	\$40,589.00
Labor Sales Tax:	\$2,833.29
Subtotal:	\$43,422.29
Shipping & Handling:	\$0.00
Grand Total:	\$112,008.29

Owner's Signature
(or representative thereof)

Date

Signature on this page constitutes agreement and approval for the scope of this project as described in this proposal and associated documentation only. Changes/additions/subtractions to this scope shall be formalized through an official change order process. Complete contractual agreement for this project shall be formalized via additional documentation.

Contractor's Signature

Date

All ideas, designs, arrangements and plans indicated or represented in this document are owned by and the property of this office and were created, evolved and developed for use on and in connection with this specified project. None of such ideas, designs, arrangements or plans shall be used by, or disclosed to any person, firm or corporation for any purpose whatsoever without the written permission of this office or an agent thereof.

Proposal Release: xx-080411-06



Sample Project Proposal

The final page of the proposal is the most important, as it outlines and summarizes all final details including the following:

- ✔ Summary of all hardware fees by subsystem
- ✔ Summary of all labor fees by phase
- ✔ Summary of all other fees
- ✔ Client signs this page agreeing to final project price





Implementation Phase

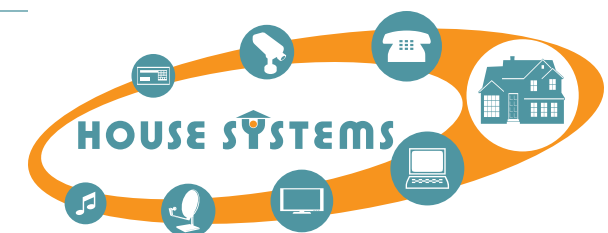
Now that you've decided on a system, it's time to make it happen.





Construction Documentation

Documents created by our engineering team to help aid communication and help ensure an accurate installation.

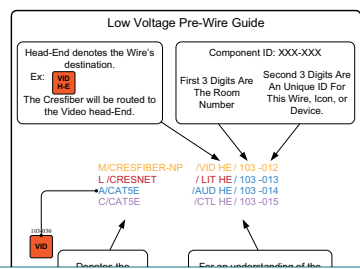


Low Voltage Head-End Pre-Wire Legend

	Video Head-End		Lighting Head-End
	Security Head-End		CCTV Head-End
	Network Head-End		Control Head-End
	Telecommunications Head-End		Audio Head-End
	HVAC Head-End		Window Treatment Motor Head-End
	CATV Head-End		Digital Satellite System Head-End
	Local Head-End		

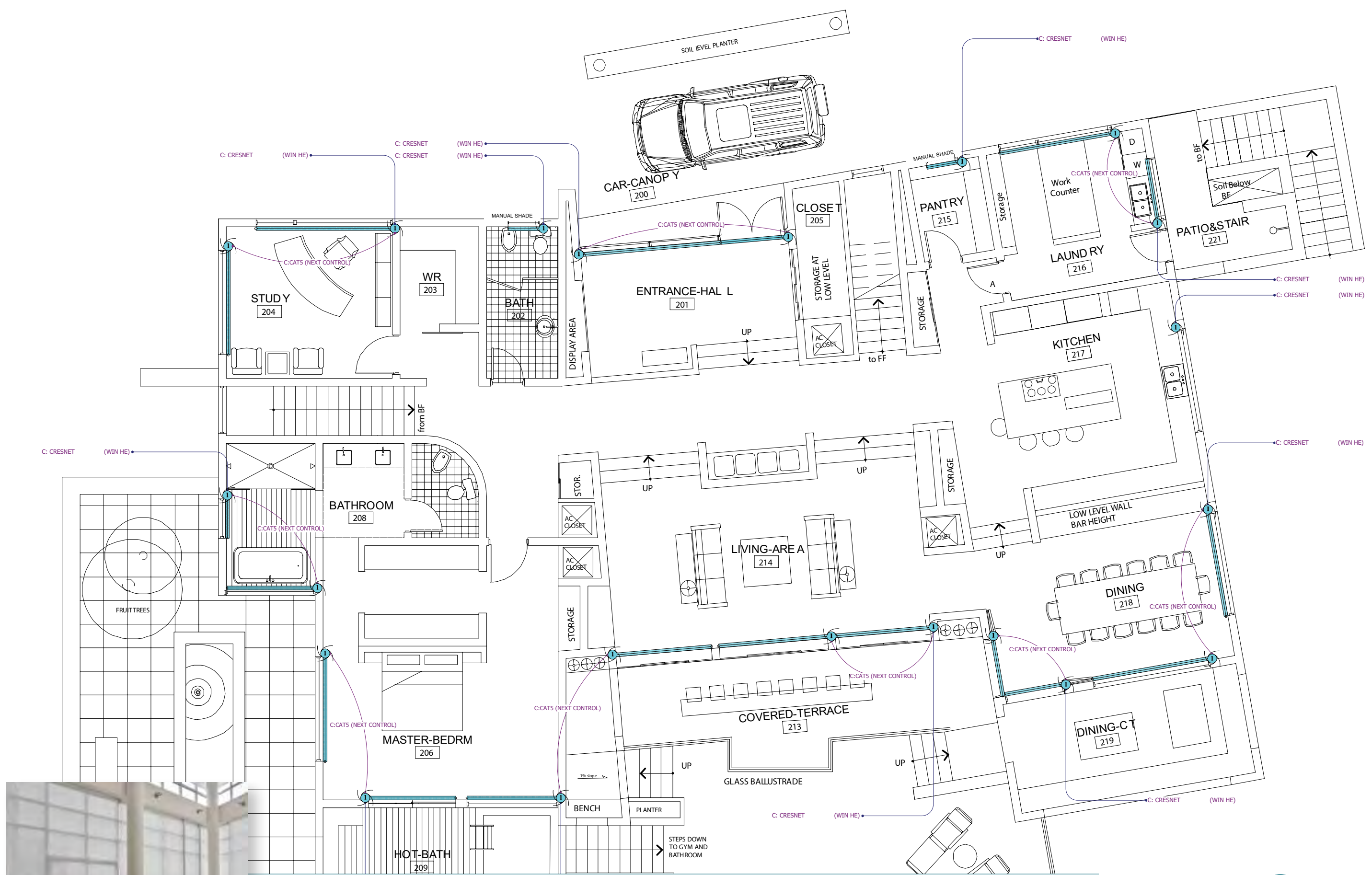
Low Voltage Pre-Wire Outlet Legend

	Speaker Locations
	Subwoofer Locations
	CATV Demark
	Satellite Radio Location
	FM Antenna Location
	Lighting Location
	Control Location
	CCTV Location
	Virtual Location



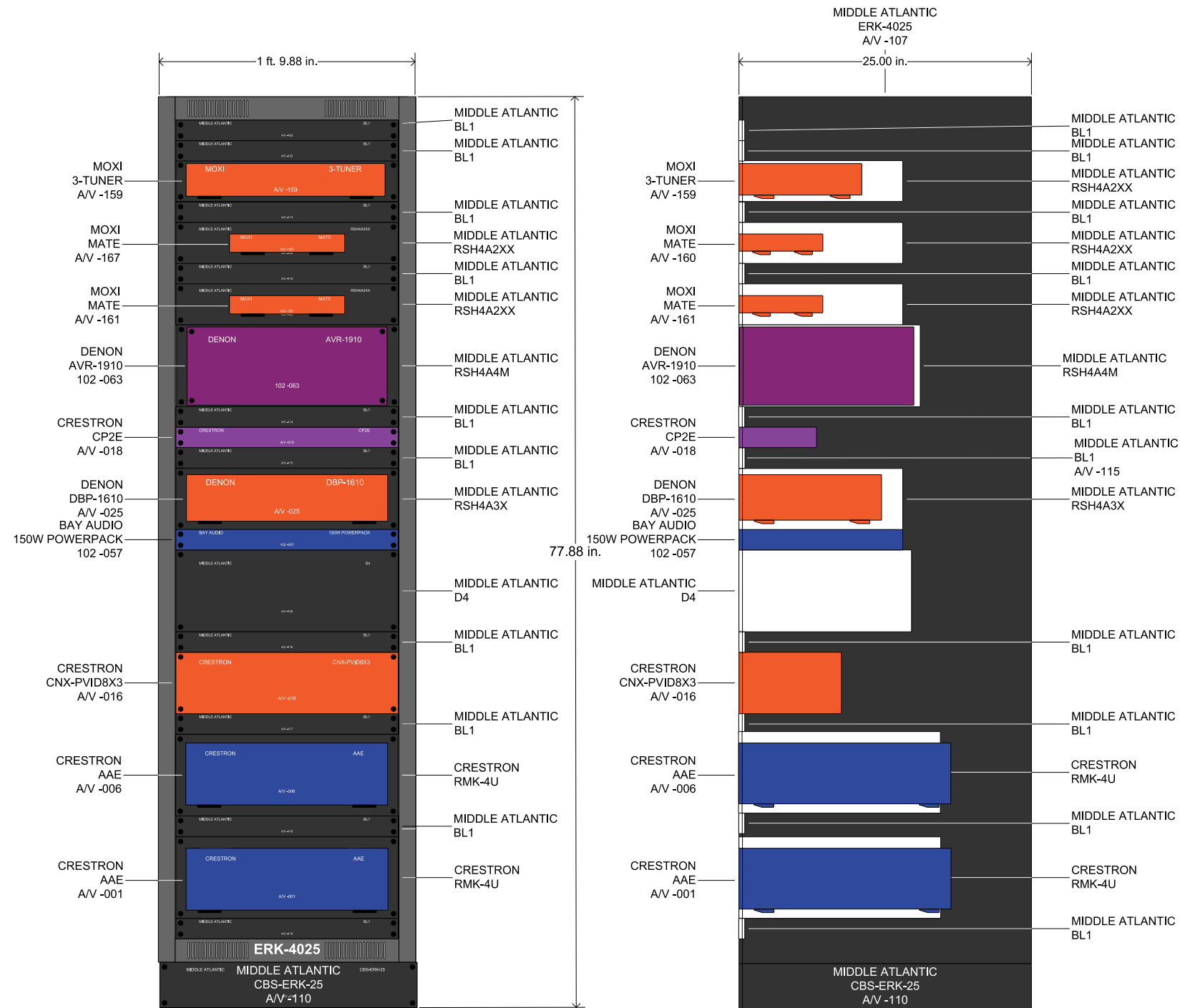
Wiring Plan
 Displays the detailed low voltage wiring requirements for the project.
 We show every wire required and it's point of origination.





Motozired Window Treatment
 Displays the motorized window treatment type,
 location and wiring specification.





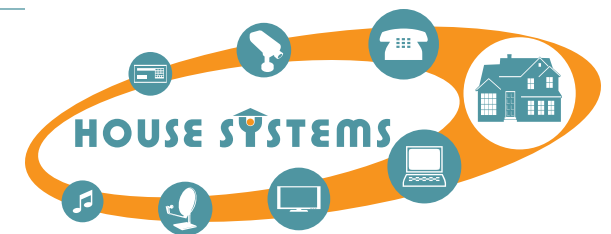
1 FRONT VIEW

1 SIDE VIEW



Rack Elevations

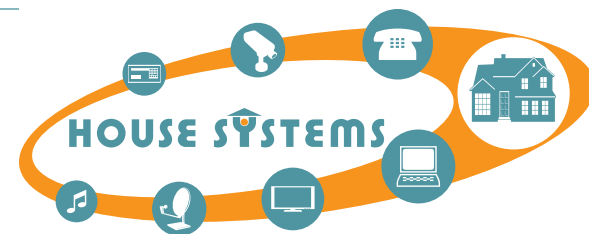
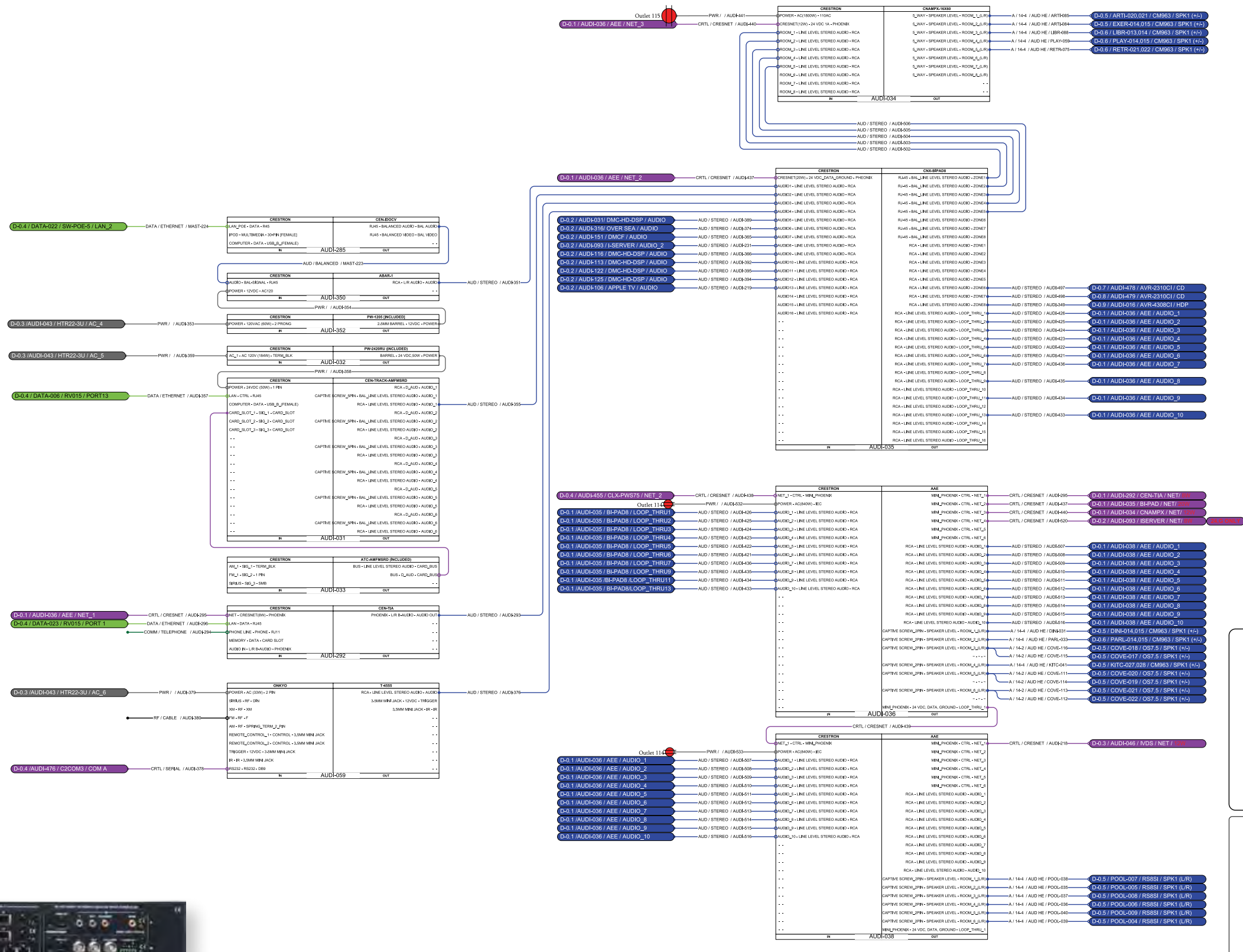
We design the system rack layout with precise detail to ensure a smooth installation.

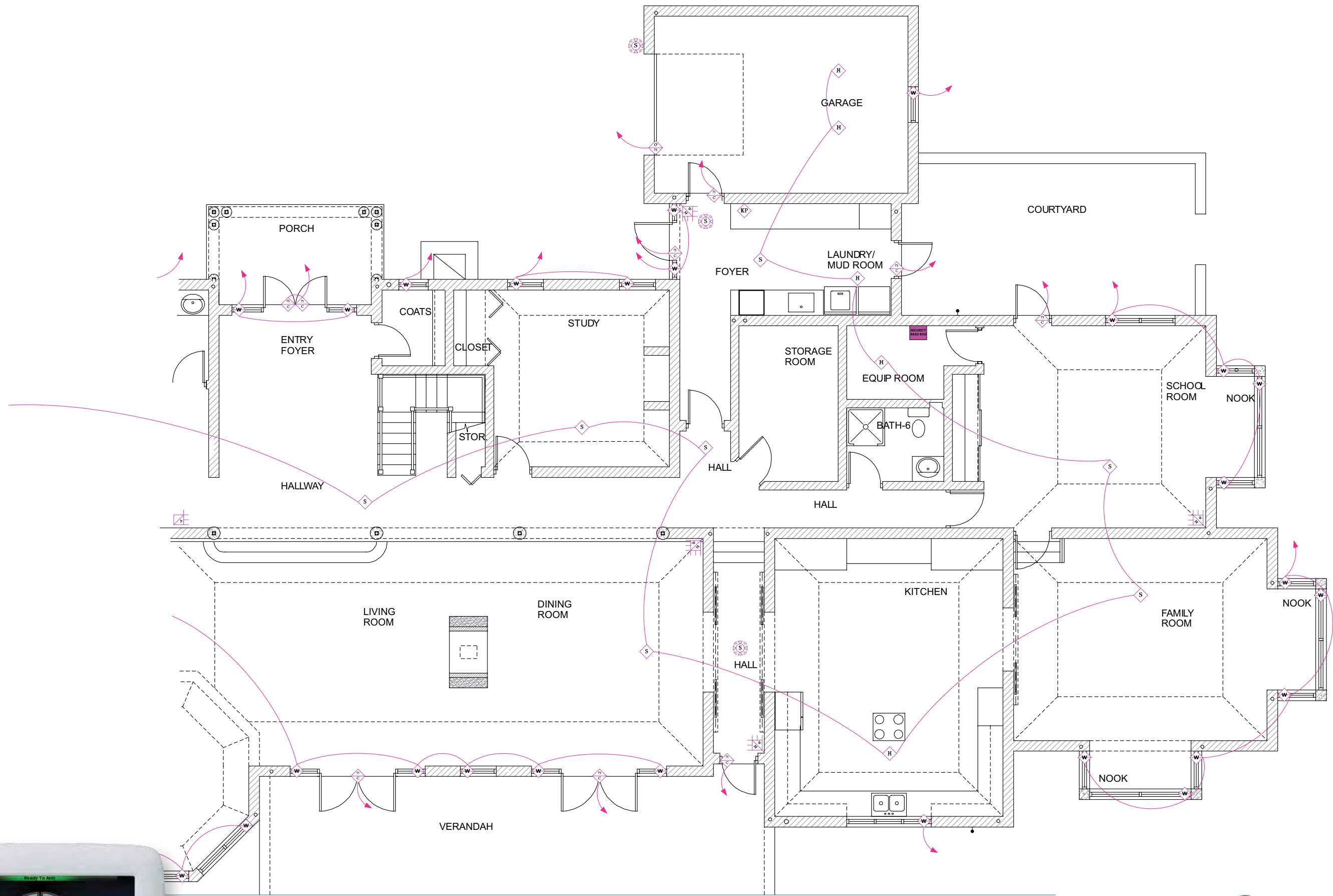




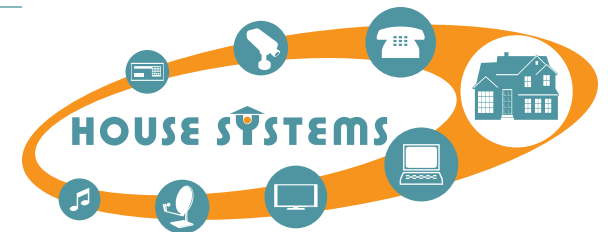
Head-End Schematics

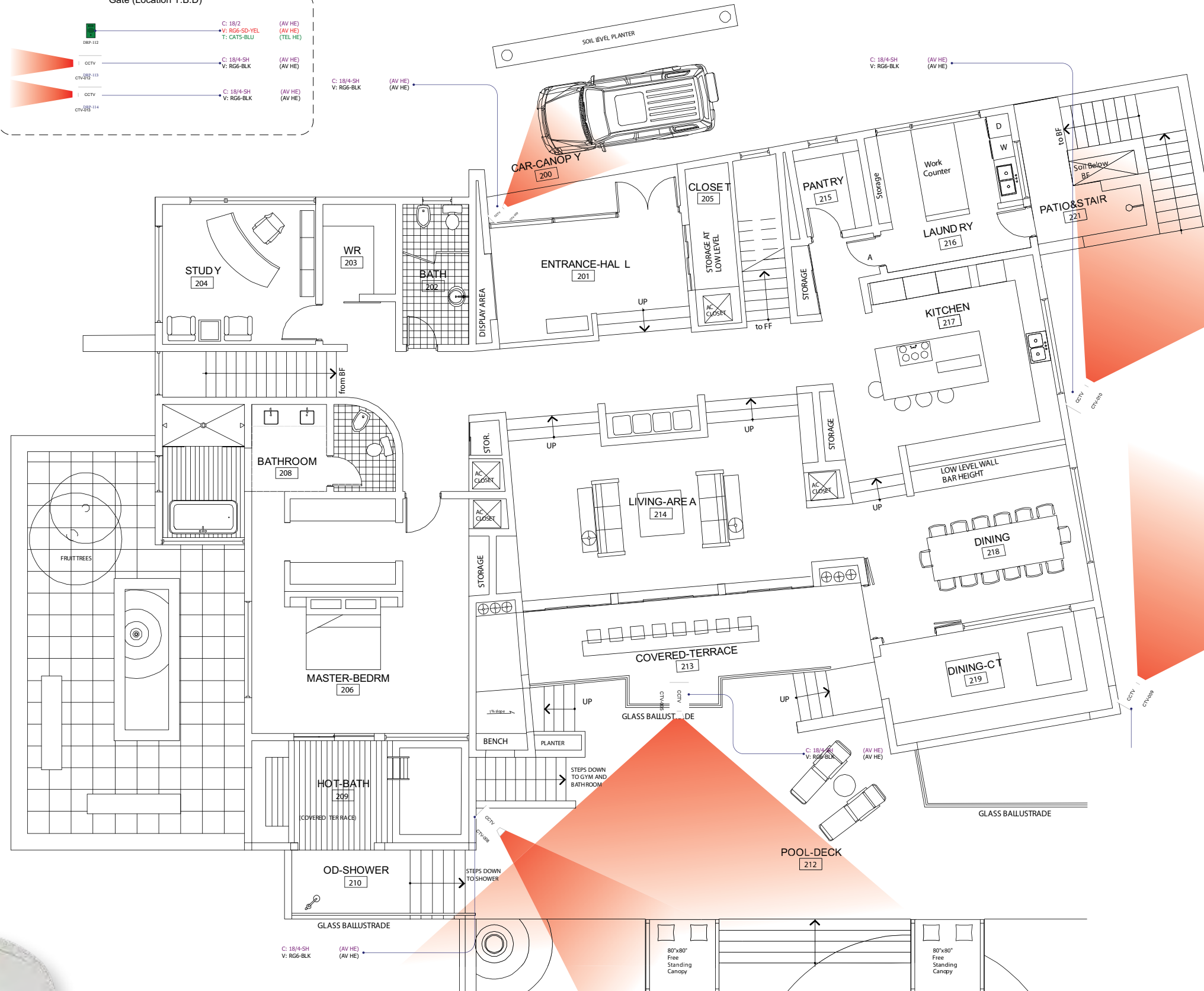
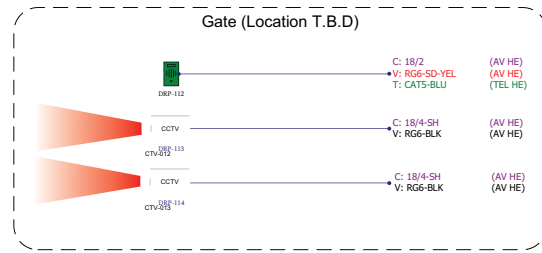
Displays the detailed inputs and outputs for system hardware. This ensures that our well trained install team wires and programs your system per your requirements.





Security Plan
 Displays the detailed security sensor locations and zoning.





Security Cameras

We provide our clients with detailed system design proposals that outline every piece of hardware required to properly execute the project. We detail this information with breakdowns for every room and area.













Color Legend

- Prefix: M for Multimedia
- Prefix: V for Video
- Prefix: A for Audio
- Prefix: C for Control
- Prefix: D for Data
- Prefix: T for Telephone
- Prefix: L for Lighting
- Prefix: * for HVAC
- Prefix: P for Power
- Prefix: * for CCTV
- Prefix: RF for CATV
- Prefix: IF for DSS
- Prefix: S for Security

PREFIX IS DETERMINED BY THE USE OF THE WIRE ATTACHED

Technical Power Legend

-  Centralized Rack Based Power Conditioning Outlet
-  Centralized Panel Based Power Conditioning Loop
-  Centralized Rack Based Power Conditioning Inlet
-  Isolated Ground Technical Power Outlet
-  Standard Outlet
-  Local Power Conditioning Outlet
-  Local Power Conditioning Loop
-  Local Power Conditioning Inlet
-  Standard Technical Power Outlet
-  220V Technical Power Outlet

ROOM REQUIREMENTS

Room/ Outlet ID	Devices	Watts	Volts	QTY	Unit Outlets Required	Total Outlets Required	Unit Current Required	Total Current Required	Is This An Amp? y/n	Total BTU/Hr @ 100%	Notes
139a - Steam	Sunbrite SB-4610HD	480	120	1	1			4.000		1638.240	
139a	Crestron PW-2407WU (For DM Fiber Room Box)	18	120	1	1		0.150			61.434	
Outlet 139a Total					2			4.150			1699.674

ROOM REQUIREMENTS

Room/ Outlet ID	Devices	Watts	Volts	QTY	Unit Outlets Required	Total Outlets Required	Unit Current Required	Total Current Required	Is This An Amp? y/n	Total BTU/Hr @ 100%	Notes
127 - AV Head End					65			145.392		43553.356	
127a	CABLE RECEIVER	65	120	6	6		3.250		y	1311.070	(Estimate)
127a	SATELLITE RECEIVER	65	120	6	6		3.250		y	1311.070	(Estimate)
Outlet 127a Total					12			6.500			
127b	Crestron PRO2	276	120	1	1		2.300			941.988	
127b	Crestron DM-MD32K3-RPS	900	120	1	1		7.500			3071.700	
127b	Crestron PW-1205 (For CM- RAM)	12	120	2	2		0.200			81.912	
127b	Crestron PW-6550R (For MM- DE-12)	25	120	1	1		0.208			85.325	
Outlet 127b Total					4			10.000			
127c	Meridian G61R	25	120	1	1		0.208		y	63.994	Amp/ler output rated at 75% max.
127c	Integra DTR-30.2	756	120	1	1		6.300			2580.228	
127c	Symetrix EXPRESS 8X8 CORBA	75	120	1	1		0.625			255.975	
127c	Meridian HDK21	40	120	1	1		0.333		y	102.390	Amp/ler output rated at 75% max.
127c	Crestron PW-2420RU	25	120	1	1		0.208			85.325	
Outlet 127c Total					5			7.675		3167.264	
127c	Cisco 2960S-48PD-L	464	120	2	2		7.733			1224.868	
127c	Panasonic MN23269K	242	240	1	1		1.008			825.946	
127c	Panasonic KX-TD40104 (Est)	100	120	1	1		0.833			341.300	
Outlet 127c Total					4			9.475			
127d	Crestron PW-2420RU	25	120	3	3		0.625		y	255.975	
127d	P5-4	20	120	1	1		0.167			68.260	(Estimate)
127d	Symetrix BX-BDSP	75	120	8	8		5.000			2047.800	
Outlet 127d Total					12			5.792			
127d	Crestron PW-2420RU (For CNX-FBAR)	50	120	2	2		0.833			341.3	
Outlet 127d Total					2			0.833			
127d	Cisco 2960S-48PD-L	464	120	1	1		3.867			1583.632	
127d	Crestron PW-2420RU (For TPMVC/7215)	50	120	7	7		2.917			1194.555	
127d	Crestron PRO2	276	120	1	1		2.300			941.988	
127d	Sony BDP-CX300K45	36	120	1	1		0.300			122.868	
127d	Cisco 2960S-24PD-L	240	120	1	1		2.000			815.120	
Outlet 127d Total					11			11.383			
127e	Crown CTB150	348	120	5	5		14.500		y	4453.965	Amp/ler output rated at 75% max.
Outlet 127e Total					5			14.500			
127f	Crown CTB150	348	120	1	1		2.900		y	890.793	Amp/ler output rated at 75% max.
127f	Crown CTS2000	1000	120	2	2		16.667		y	5119.500	Amp/ler output rated at 75% max.
Outlet 127f Total					3			19.567			
127g	Crown CTB150	348	120	1	1		2.900		y	890.793	Amp/ler output rated at 75% max.
127g	Crown CTS2000	1000	120	2	2		16.667		y	5119.500	Amp/ler output rated at 75% max.
Outlet 127g Total					3			19.567			
127h	Qsc C602V (Est)	1200	120	2	2		20.000		y	6143.400	Amp/ler output rated at 75% max. (Estimate)
Outlet 127h Total					2			20.000			
127i	Qsc C602V (Est)	1200	120	2	2		20.000		y	6143.400	Amp/ler output rated at 75% max. (Estimate)
Outlet 127i Total					2			20.000			

ROOM REQUIREMENTS

Room/ Outlet ID	Devices	Watts	Volts	QTY	Unit Outlets Required	Total Outlets Required	Unit Current Required	Total Current Required	Estimate? y/n	Is This An Amp? y/n	Total BTU/Hr @ 100%	Notes
126e - Game Room Total					9			15.367			4293.572	
126a	Samsung UN55C6000F	190	120	1	1		1.583			648.470		
126a	Crestron PW-2407WU (For DM Fiber Room Box)	18	120	1	1		0.150			61.434		
Outlet 126a Total					2			1.733			1365.200	
126c	Ranco LS-101	400	120	1	1		3.333			1365.200		
126c	Crestron PW-2407WU (For DM Fiber Room Box)	18	120	2	2		0.300			122.868		
Outlet 126c Total					2			3.633				
126e	Meridian DSP420	240	120	5	5		10.000			4095.600		
Outlet 126e Total					5			10.000				

NON-ISOLATION TRANSFORMER REQUIREMENTS

ROOM REQUIREMENTS

Room/ Outlet ID	Devices	Watts	Volts	QTY	Unit Outlets Required	Total Outlets Required	Unit Current Required	Total Current Required	Is This An Amp? y/n	Total BTU/Hr @ 100%	Notes
126e - Game Room					3			14.500		5938.620	
126e	TV LIFT	200	120	1	1		1.667			682.600	(Estimate)
Outlet 126e Total					1			12.000		4914.720	
126d	Chief SE-236FD	1440	120	1	1		12.000			4914.720	
Outlet 126d Total					1			12.000			
126e	Stewart ABTEM122HGRSG3W	100	120	1	1		0.833			341.300	(Estimate)
Outlet 126e Total					1			0.833			

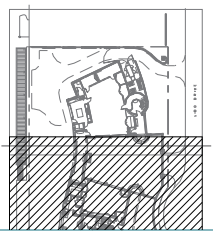
ROOM REQUIREMENTS

Room/ Outlet ID	Devices	Watts	Volts	QTY	Unit Outlets Required	Total Outlets Required	Unit Current Required	Total Current Required	Is This An Amp? y/n	Total BTU/Hr @ 100%	Notes
116e - Kitchen					2			0.500		204.780	
116a	Samsung UN32C5000F	42	120	1	1		0.350			143.346	
116a	Crestron PW-2407WU (For DM Fiber Room Box)	18	120	1	1		0.150			61.434	
Outlet 116a Total					2			0.500			

NON-ISOLATION TRANSFORMER REQUIREMENTS

ROOM REQUIREMENTS

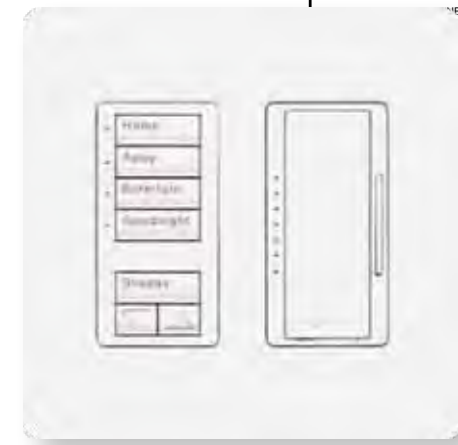
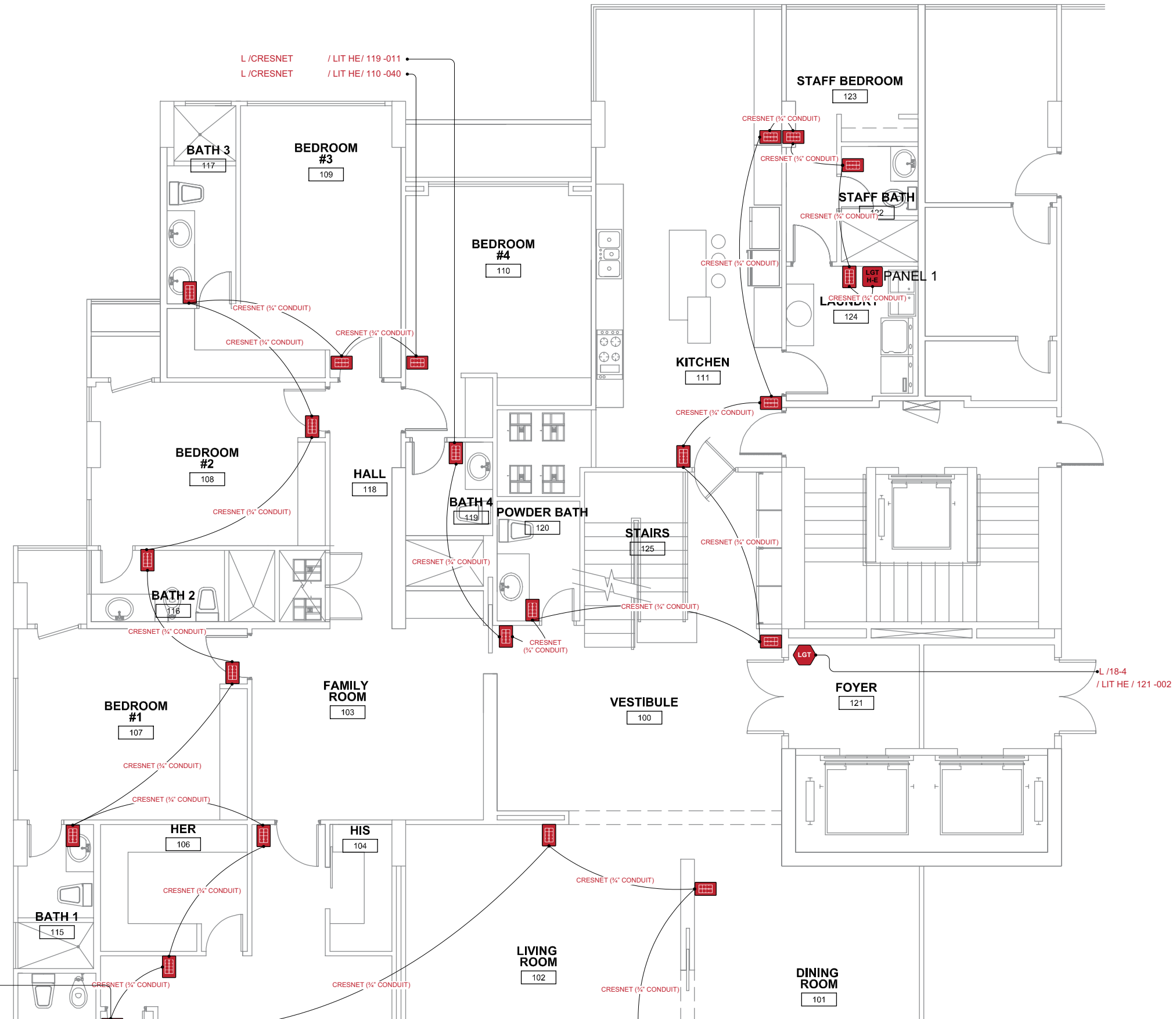
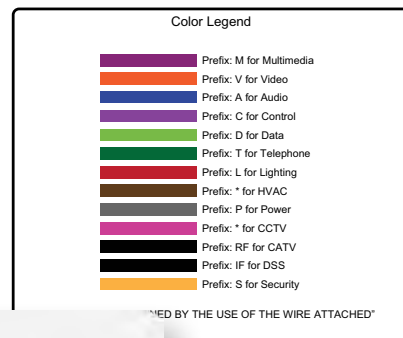
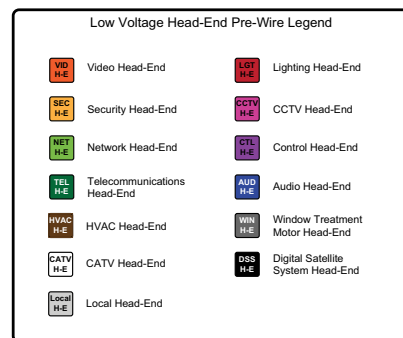
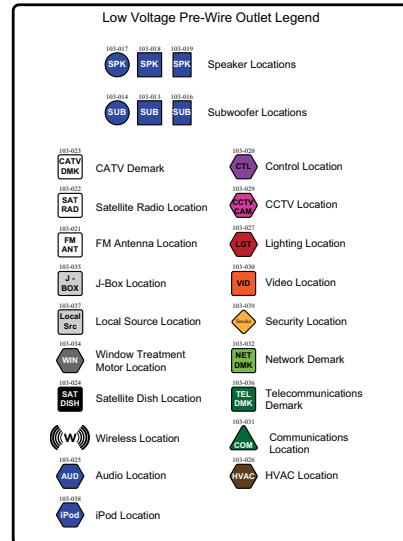
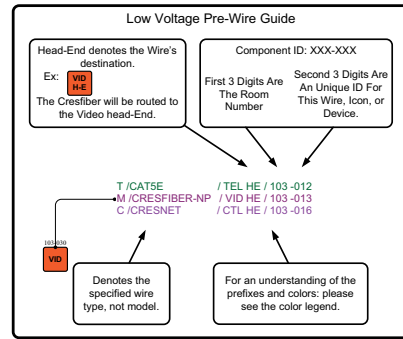
Room/ Outlet ID	Devices	Watts	Volts	QTY	Unit Outlets Required	Total Outlets Required	Unit Current Required	Total Current Required	Is This An Amp? y/n	Total BTU/Hr @ 100%	Notes
127 - Closet					7			42.000		17201.520	
127j	Lutron QSFS-P1-10-60	720	120	2	2		2	12.000		4914.720	
Outlet 127j Total					2			12.000		4914.720	
127k	Lutron QSFS-P1-10-60	720	120	2	2		2	12.000		4914.720	
Outlet 127k Total					2			12.000		4914.720	
127l	Lutron QSFS-P1-10-60	720	120	2	2		2	12.000		4914.720	
Outlet 127l Total					2			12.000		4914.720	
127m	Lutron QSFS-P1-10-60	720	120	1	1		6.000			2457.360	
Outlet 127m Total					1			6.000			



Technical Power Plan

Displays the detailed high voltage wiring requirements resulting from our system design. We provide the electrician with this information immediately following the contract signing.

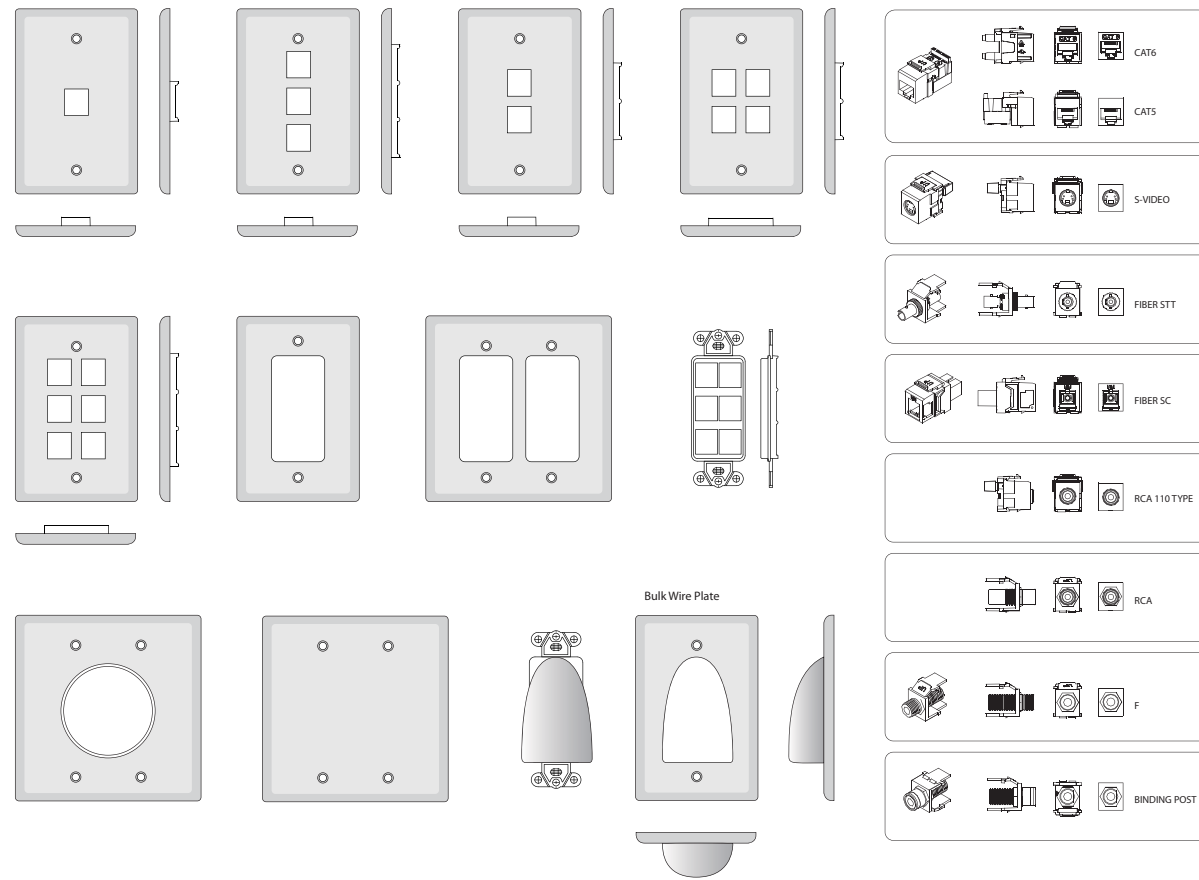




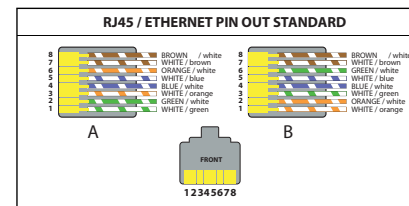
Keypad Loop Plan

We create detailed wiring plans showing how every device including keypads, link together to ensure proper functionality and operation.





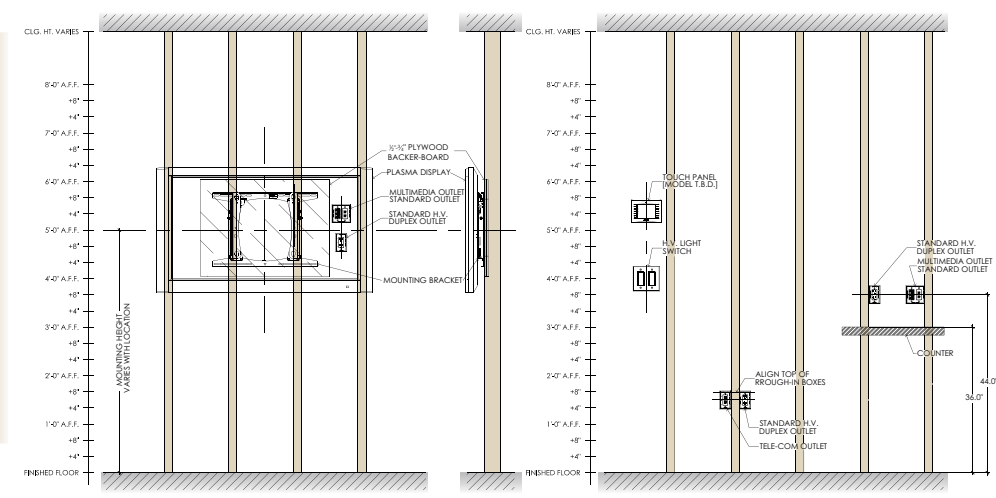
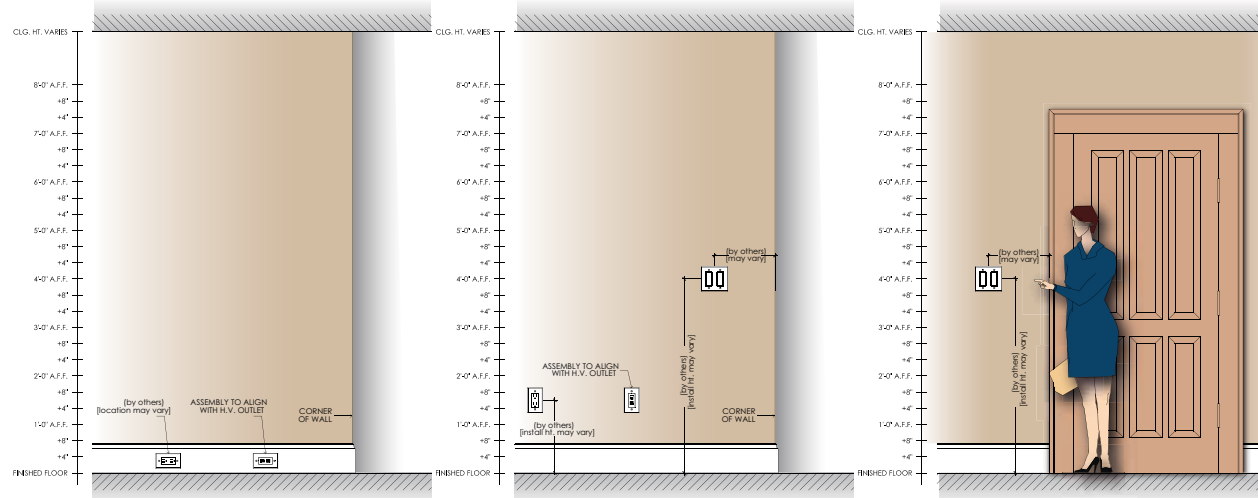
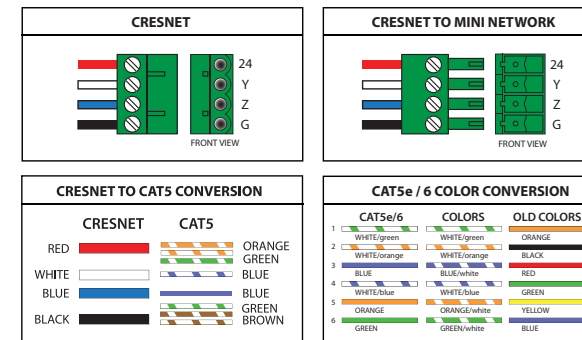
Pair #	First Wire	Second Wire	25 PAIR				
1	White	Blue	1	2	3	4	5
2		Orange					
3		Green					
4	Red	Brown	6	7	8	9	10
5		Slate					
6		Blue					
7	Black	Orange	11	12	13	14	15
8		Green					
9		Brown					
10	Yellow	Slate	16	17	18	19	20
11		Blue					
12		Orange					
13	Violet	Green	21	22	23	24	25
14		Brown					
15		Slate					
16		Blue					
17		Orange					
18		Green					
19		Brown					
20		Slate					
21		Blue					
22		Orange					
23		Green					
24		Brown					
25		Slate					



PIN	Pin Function	RS-232 PIN OUT
1	Data carrier detect	6
2	Data set ready	7
3	Receive data	8
4	Request to send	4
5	Transmit data	5
6	Clear to send	3
7	Data terminal ready	2
8	Ring indicator	9
9	Signal ground	Shield connected to drain wire.

PO	RJ25	RJ14	RJ11	PAIR	T/R	+	RJ-25 / 14 / 11
1	1			3	T	+	
2	2	1		2	T	+	
3	3	2	1	1	R	-	
4	4	3	2	1	T	+	
5	5	4		2	R	-	
6	6			3	R	-	

PIN	Pin Function	XLR
1	Chassis ground (cable shield)	
2	Positive polarity terminal ("hot")	
3	Return terminal[2] ("cold")	



INSTALLATION NOTES:

- GENERAL CONTRACTOR TO PROVIDE ALL NECESSARY SUPPORT AND BACKING AT POTENTIAL FLAT PANEL DISPLAY LOCATIONS TO PREVENT SEPARATION INTO STUDS PROVIDING A FLUSH BETWEEN BACKING AND GYPSUM BOARD RELY FASTENED TO THE STUDS USING ANDIOR SCREWS
- PLACEMENT - TYPICAL HEIGHT IS 60" A.F.F. (AS SHOWN) TO CENTERLINE (CL) OF BACKING BOX - REFER TO ROOM ELEVATION PAGES AND CROSS SECTIONS (WHEN AVAILABLE) FOR DETAILS FOR FINAL PLACEMENT COORDINATION IN-FIELD.
- LARGE FLAT PANEL SPECIFICATIONS - AS SHOWN ARE SUITABLE FOR DISPLAYS IN THE 32"-65" (DIAGONAL) RANGE.
- SMALL FLAT PANEL (SMALLER THAN 32" DISPLAY) SPECIFICATIONS - WILL REQUIRE SIMILAR BACKING TECHNIQUE USING 1/2" PLYWOOD SPECIFICATIONS - WILL REQUIRE CUSTOM BACKING TO BE DETERMINED BASED ON FINAL DISPLAY SPECIFICATION

GENERAL INSTALLATION NOTES:

- ALIGN FACEPLATES BY CENTERLINE (CL) WHEN SPECIFIED AT DIFFERENT HEIGHTS BUT SHARING THE SAME STUD BAY.
- ALIGN JUNCTION BOXES (J-BOXES) TO TOP OF BOX WHEN SPECIFIED AT THE SAME HEIGHT (WHENEVER POSSIBLE)
- ALIGN IN-CEILING SPEAKERS WITH LIGHT CANS ON CENTERLINE (CL) WHERE APPLICABLE, TYPICAL
- ALL VIDEO & TELECOM JACKS TO BE SIMILAR TO ELECTRICAL OUTLETS IN HEIGHT & ALIGNMENT - COORDINATE ALL LOCATIONS WITH CONTRACTOR & VERIFY IN-FIELD

- IF ELECTRICAL OUTLETS & LOW VOLTAGE OUTLET LOCATIONS CANNOT BE SIMILAR - COORDINATE WITH BUILDER & INTEGRATOR TO DEFINE SPECIFICATIONS
- DOOR PHONE TO BE MOUNTED AT 48" (A.F.F.), TYPICAL
- PROVIDE 12' (FOOT) WIRE BUNDLE (TAIL - OUT OF WALL) AT ALL UNTRIMMED MULTIMEDIA JACKS & LOCAL SOURCE LOCATIONS.
- PROVIDE 20' (FOOT) WIRE BUNDLE (TAIL - OUT OF WALL) AT ALL HEAD-END (HE) LOCATIONS.
- WALL TELEPHONES TO BE MOUNTED AT 54"-60" (A.F.F.), TYPICAL
- WATER CLOSET (W.C.) TELEPHONES TO BE MOUNTED AT 42" (A.F.F.), TYPICAL

ARCHITECTURAL CONSIDERATIONS:

- VERIFY ALL FINAL DEVICE AND/OR EQUIPMENT LOCATIONS WITH ARCHITECT & BUILDER PRIOR TO INSTALLATION
- DO NOT SCALE FROM THESE DRAWINGS - REFER TO SCALED DETAILS PAGE (WHEN AVAILABLE) FOR SYSTEM SPECIFICATIONS **

ELECTRICAL (TECHNICAL POWER) CONSIDERATIONS:

ALL ELECTRONIC EQUIPMENT REQUIRING ELECTRICAL/TECHNICAL POWER SHALL INCLUDE THE FOLLOWING SPECIFICATIONS:

- 20 AMP RATED DEDICATED CIRCUITS
- HOSPITAL GRADE OUTLET (WHERE APPLICABLE)
- DEDICATED CIRCUIT/SAME PHASE

NOTE - ALL CIRCUIT SPECIFICATIONS ARE FOR COORDINATION PURPOSES ONLY.

EXCLUSIONS:

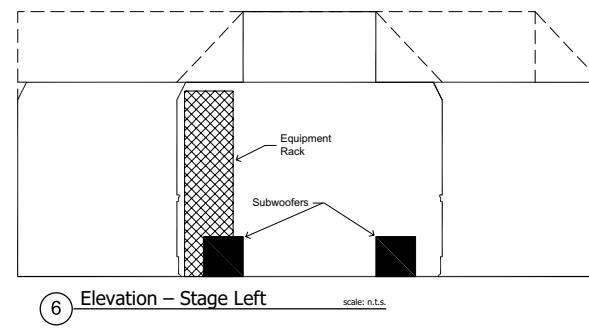
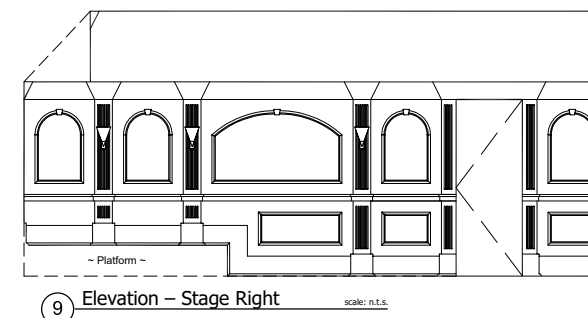
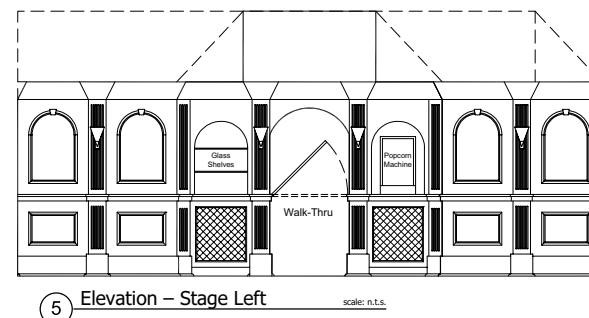
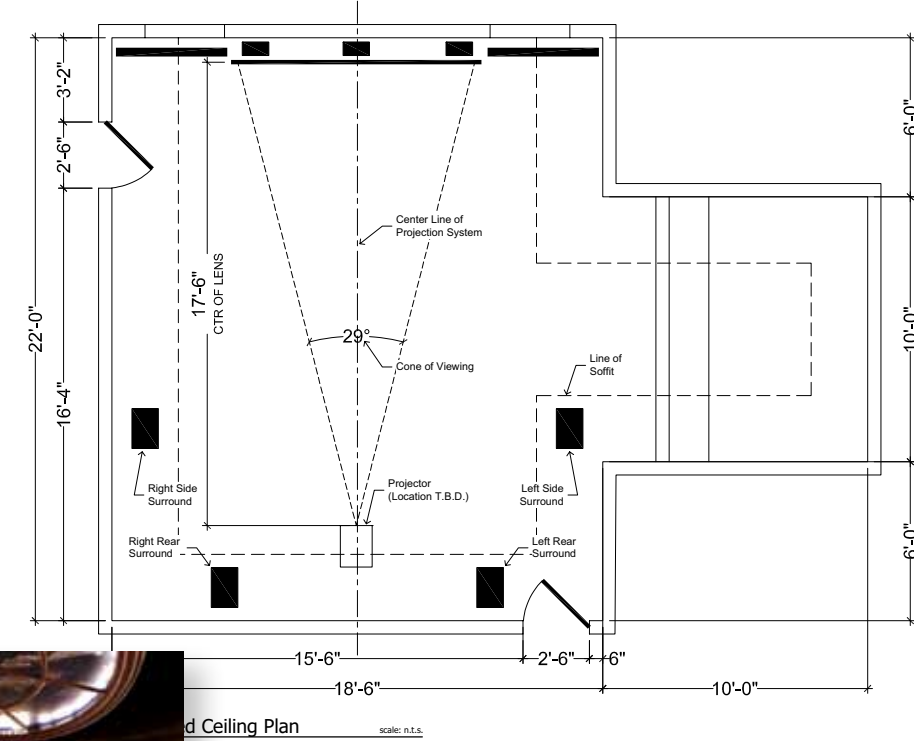
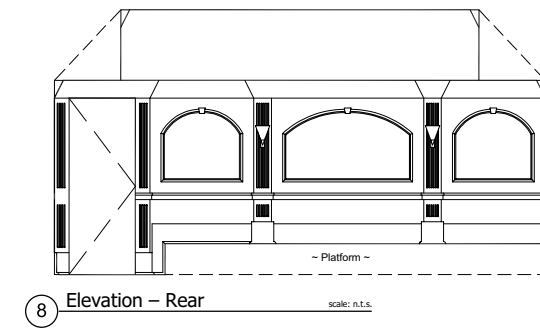
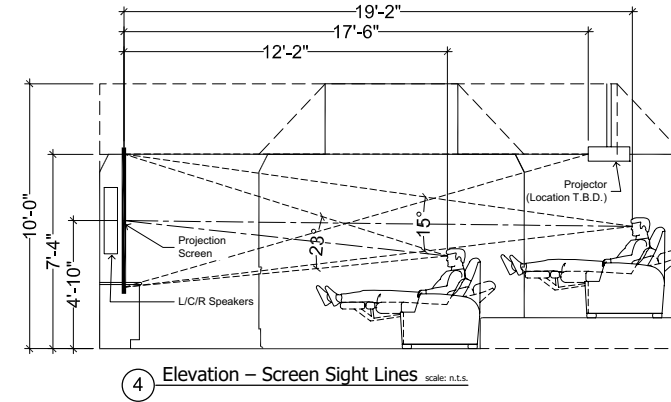
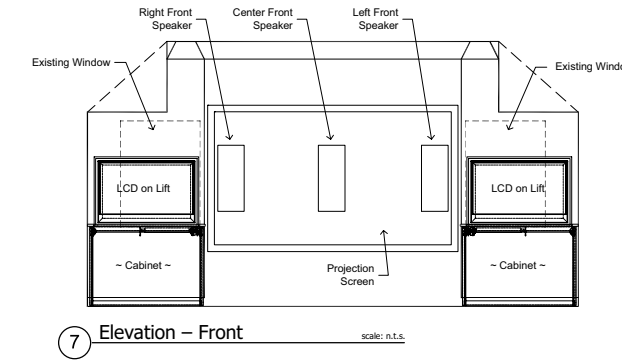
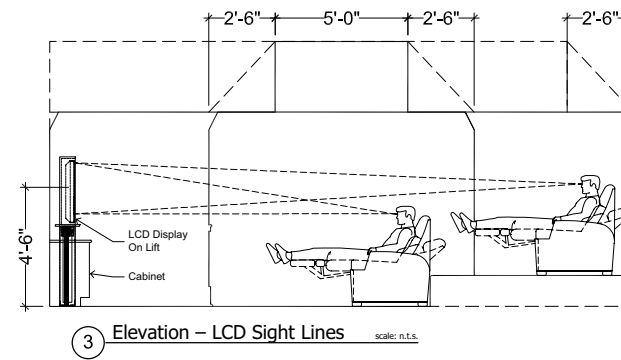
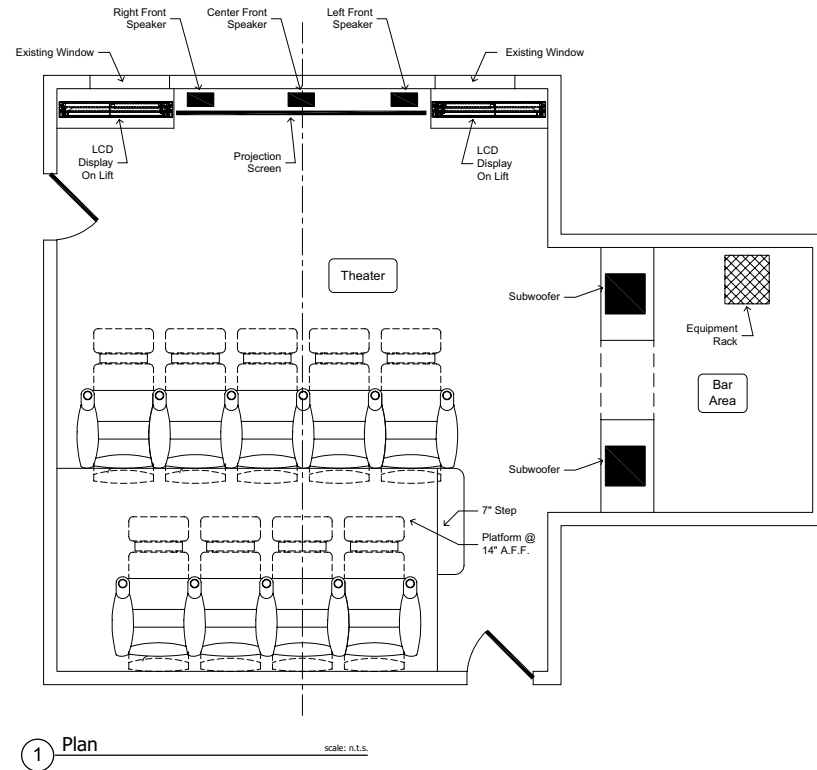
- CONDUIT MAY BE PROVIDED BY OTHERS - REFER TO WIRING PLAN & OR SYSTEM SPECIFICATIONS FOR DETAILS
- ANY STRUCTURAL MODIFICATIONS MUST BE PERFORMED BY OTHERS - INCLUDING BUT NOT LIMITED TO STRUCTURAL ENHANCEMENT OR CUSTOM FRAMING - COORDINATE WITH CONTRACTOR IN-FIELD



General Installation Notes

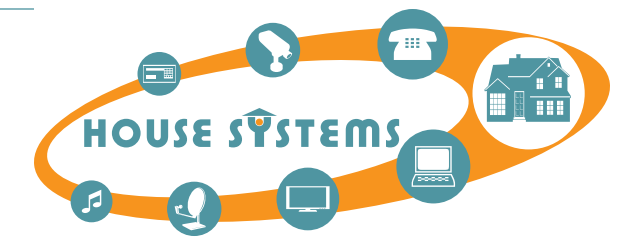
This sheet displays the standard mounting heights for touch panels, keypads, displays and rough-in boxes.

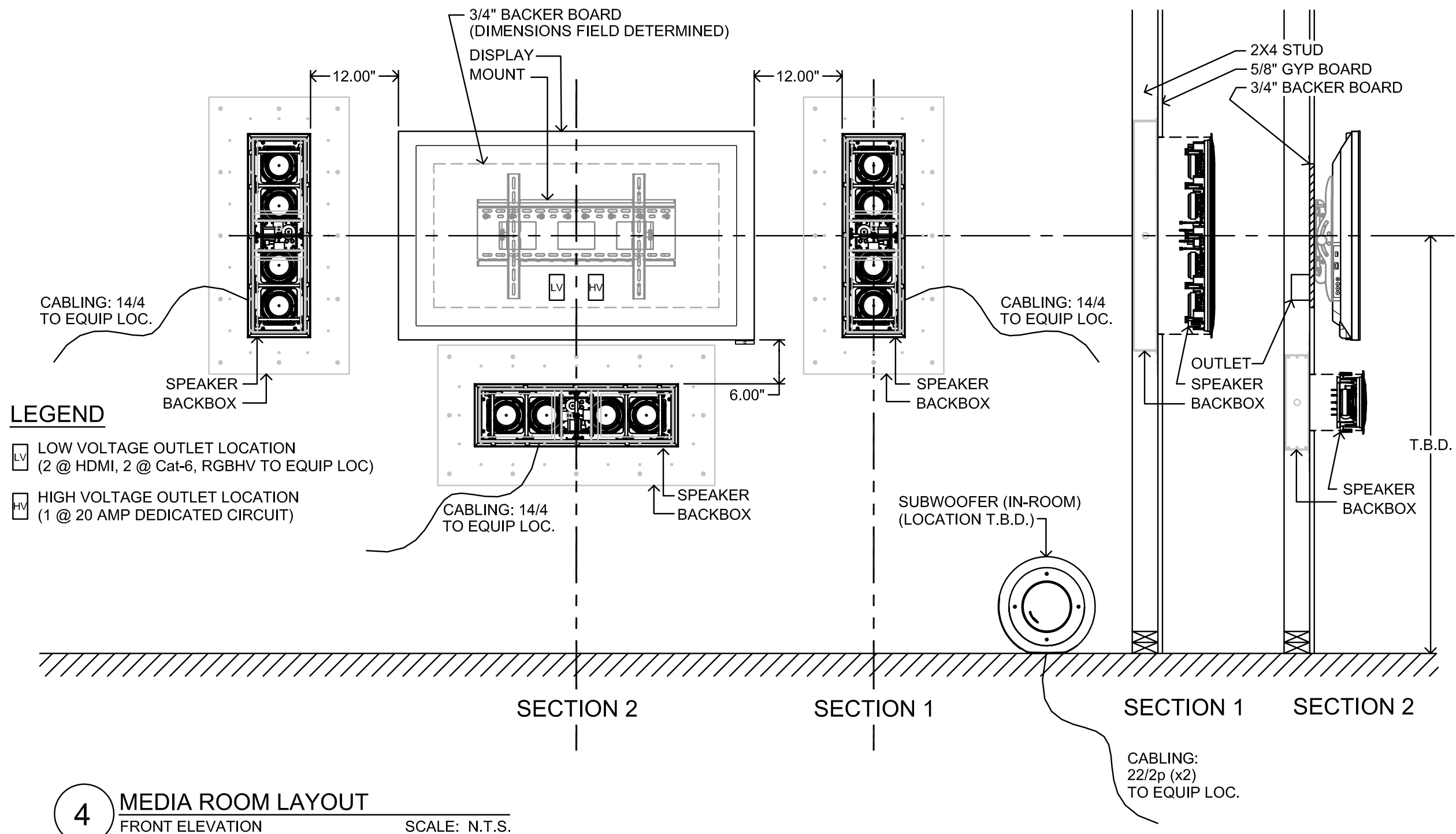




Home Theater Elevation

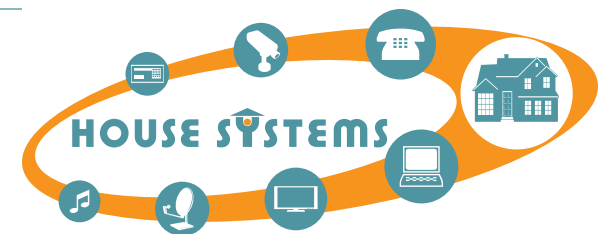
Throughout the entire design, engineering and installation process, we work closely with your architect, designer and contractors to ensure the most professional and rapid completion of your dream system.

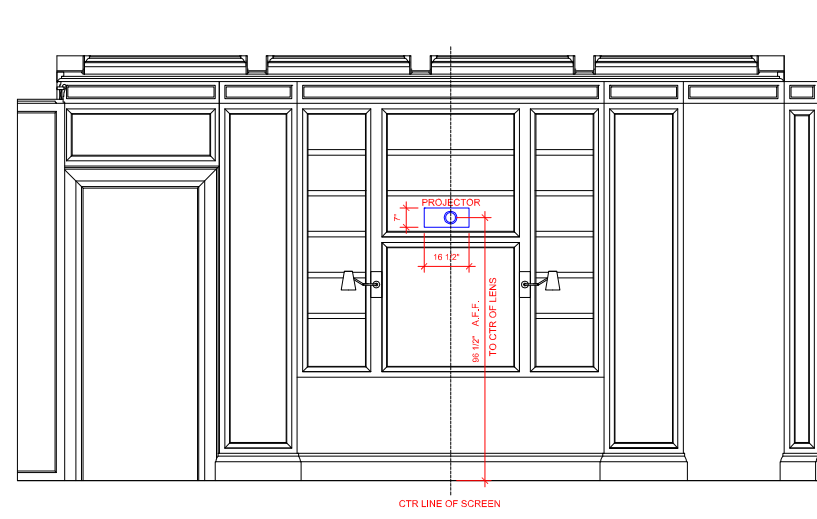




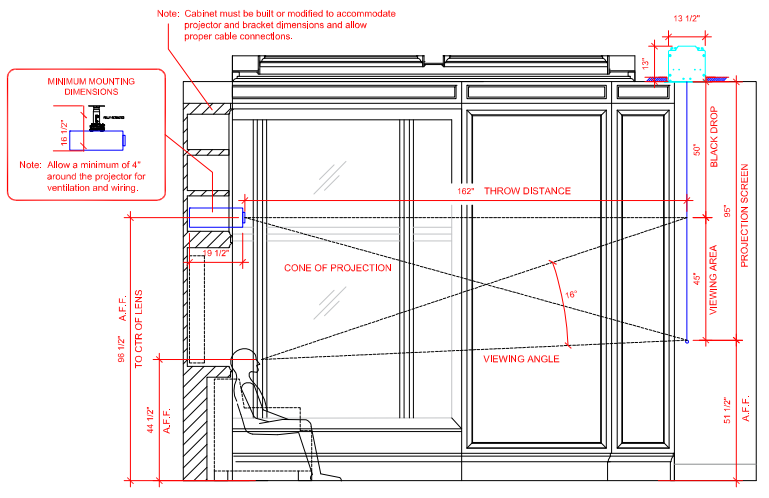
Assembly Drawing

We create drawings with the finest level of detail to ensure a successful installation.

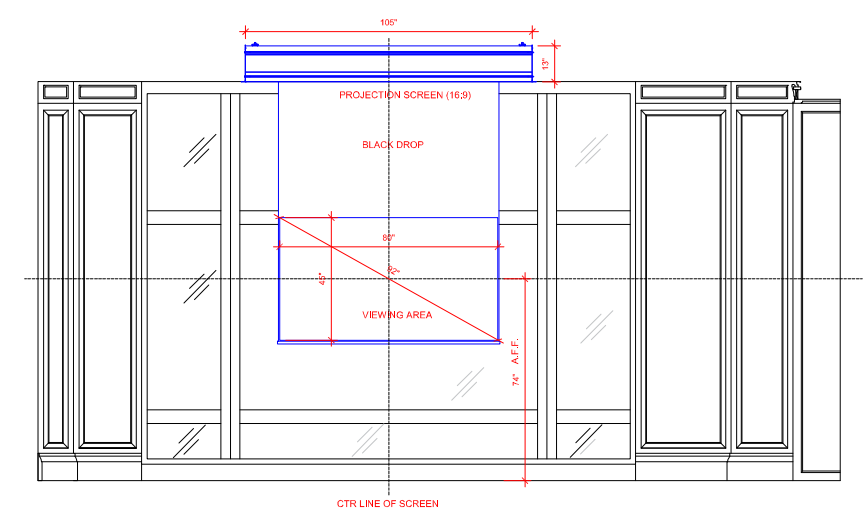




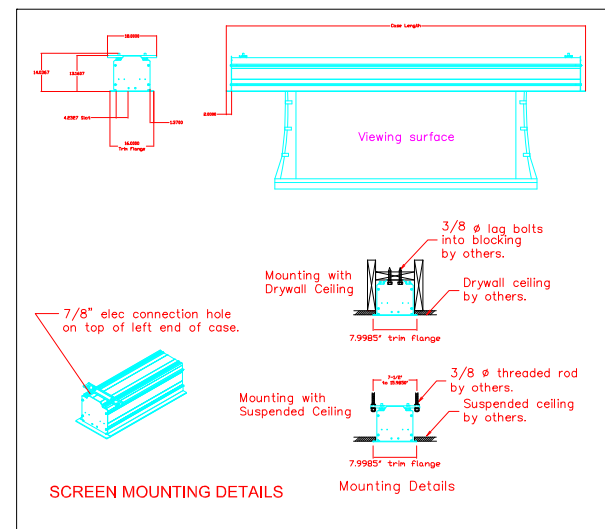
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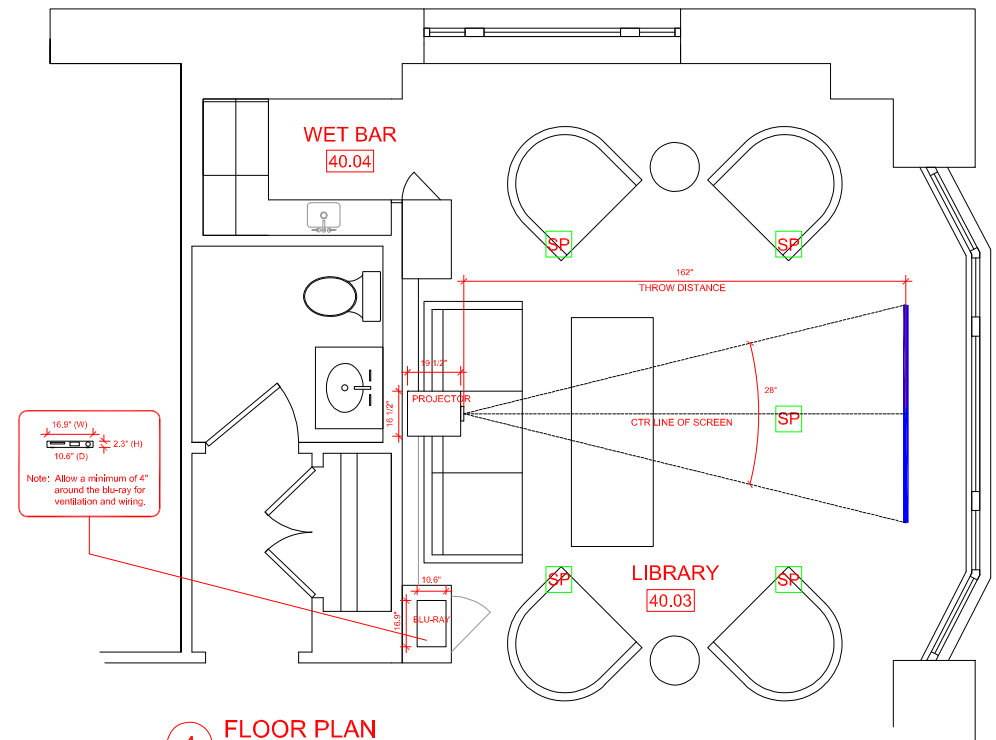
2 NORTH ELEVATION @ LIBRARY 40.03



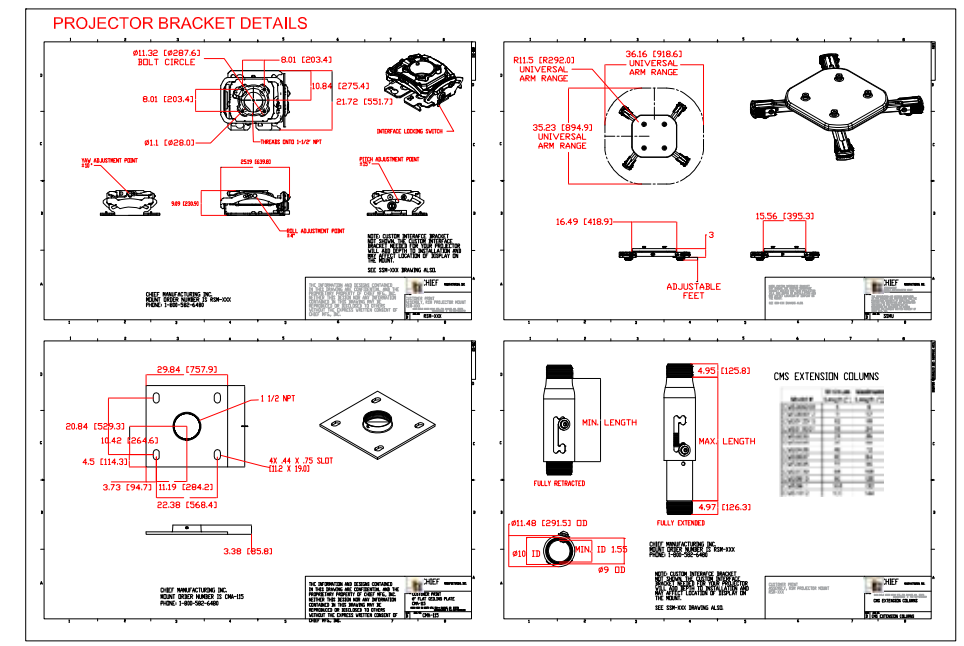
3 EAST ELEVATION @ LIBRARY 40.03



SCREEN MOUNTING DETAILS



4 FLOOR PLAN



PROJECTOR BRACKET DETAILS



Assembly Drawing

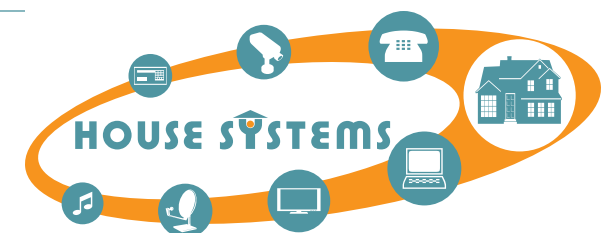
We create drawings with the finest level of detail to ensure a successful installation.





Product Information

We utilize best-in-class products that balance performance requirements with project budget.



Experience Crestron

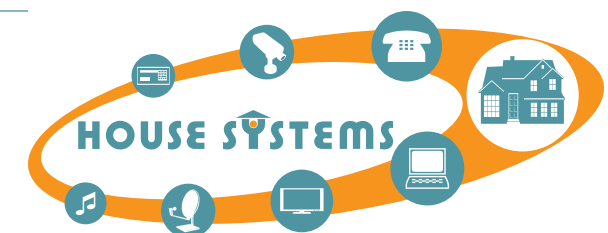
From lighting and climate control to audio and video control, Crestron provides the ultimate integrated automation solutions.



With over 40 years in business Crestron Electronics is the leading provider of control and automation systems for homes, offices, schools, hospitals, hotels and more. Crestron provides the ultimate technology lifestyle. No matter where you are, or what you do, with Crestron you're always connected.



Crestron Interfaces



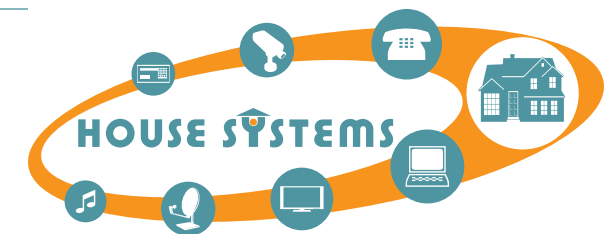
Power Meets Play

A touch screen is only as powerful as the system behind it. Crestron integration with Apple® is the perfect marriage of content and technology to create the perfect home entertainment system.

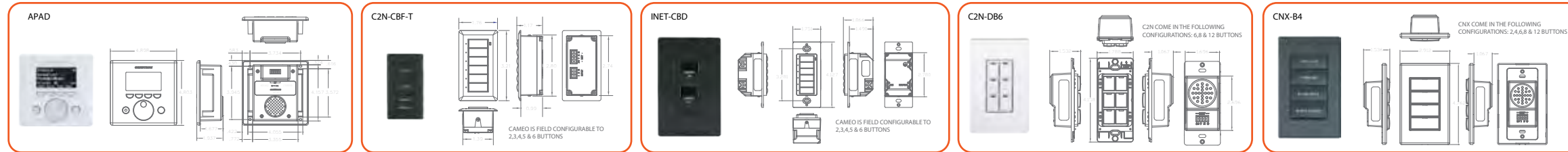


Crestron Overview

Crestron integration with Apple® is the perfect marriage of content and technology to create the perfect home entertainment system.



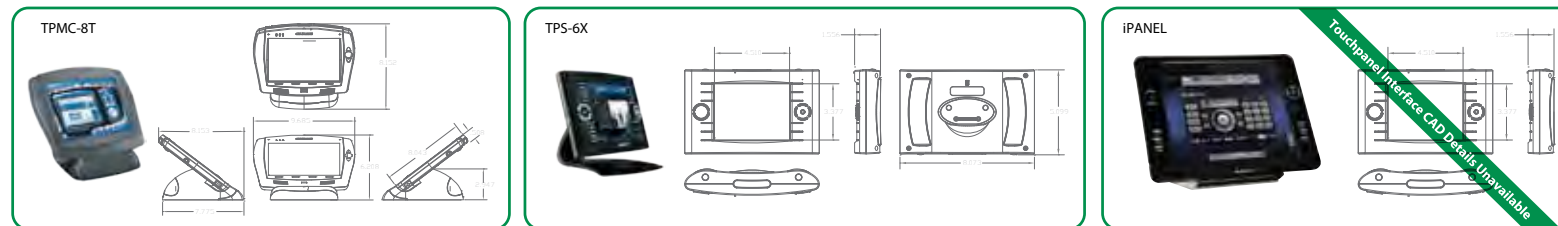
Keypads



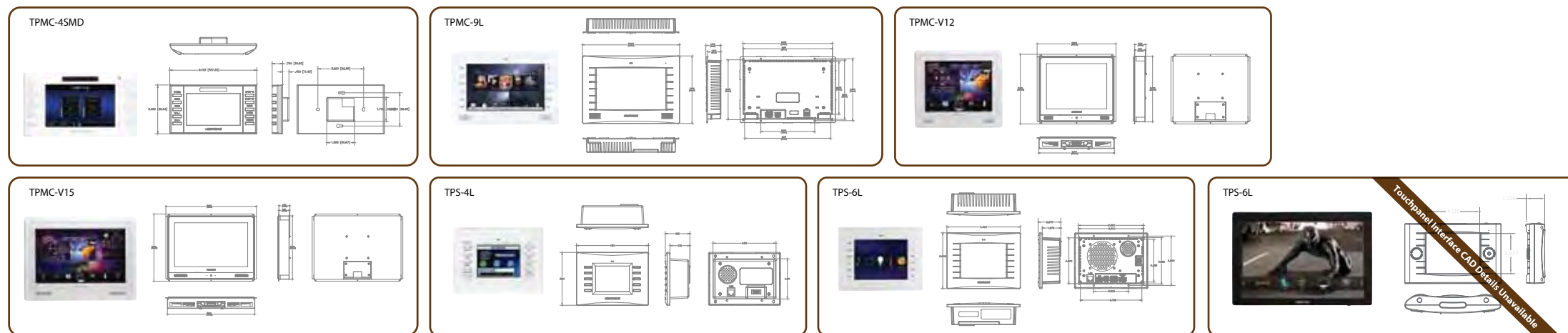
Handheld Remotes



Wireless

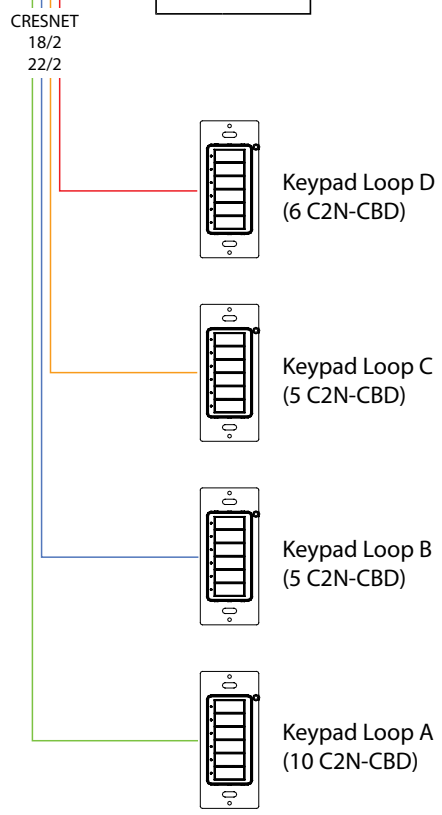
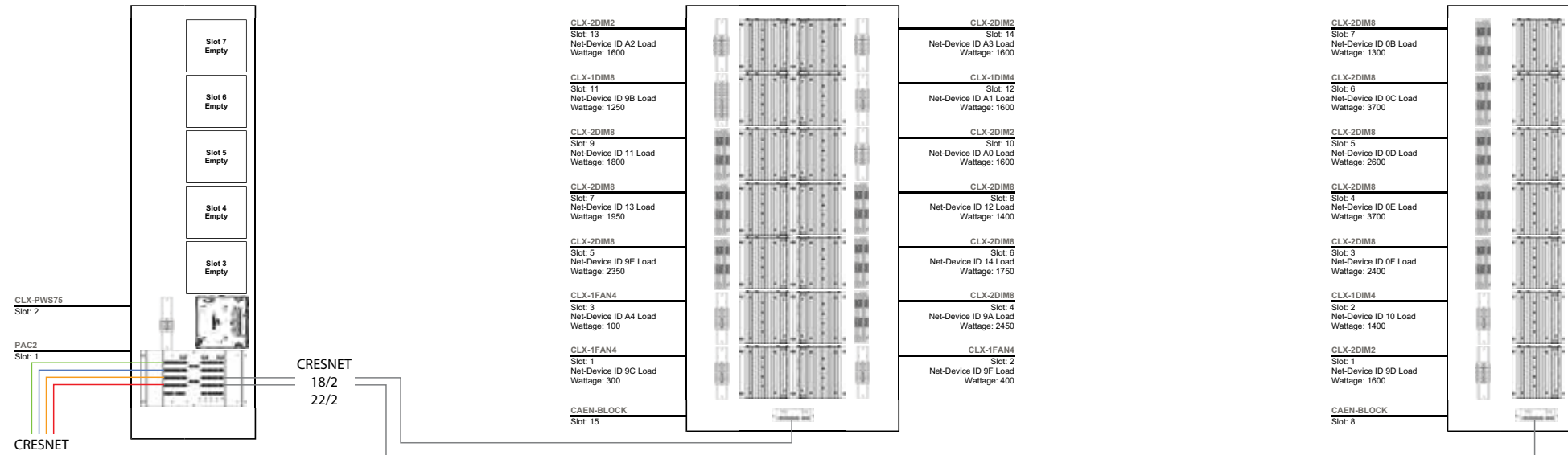


Wallmount



Tabletop





Module	Module ID	Module Name	Module Power	Module Status
Module 1	CLX-2DIM2	Slot 13 Net-Device ID A2 Load Wattage: 1600	OK	OK
Module 2	CLX-1DIM8	Slot 11 Net-Device ID 9B Load Wattage: 1250	OK	OK
Module 3	CLX-2DIM8	Slot 9 Net-Device ID 11 Load Wattage: 1800	OK	OK
Module 4	CLX-2DIM8	Slot 7 Net-Device ID 13 Load Wattage: 1950	OK	OK
Module 5	CLX-2DIM8	Slot 5 Net-Device ID 9E Load Wattage: 2350	OK	OK
Module 6	CLX-1FAN4	Slot 3 Net-Device ID A4 Load Wattage: 100	OK	OK
Module 7	CLX-1FAN4	Slot 1 Net-Device ID 9C Load Wattage: 300	OK	OK
Module 8	CAEN-BLOCK	Slot 15	OK	OK
Module 9	CLX-2DIM2	Slot 7 Net-Device ID A3 Load Wattage: 1600	OK	OK
Module 10	CLX-1DIM4	Slot 6 Net-Device ID A1 Load Wattage: 1600	OK	OK
Module 11	CLX-2DIM2	Slot 5 Net-Device ID A0 Load Wattage: 1600	OK	OK
Module 12	CLX-2DIM8	Slot 4 Net-Device ID 12 Load Wattage: 1400	OK	OK
Module 13	CLX-2DIM8	Slot 3 Net-Device ID 14 Load Wattage: 1750	OK	OK
Module 14	CLX-2DIM8	Slot 2 Net-Device ID 9A Load Wattage: 2450	OK	OK
Module 15	CLX-1FAN4	Slot 1 Net-Device ID 9F Load Wattage: 400	OK	OK
Module 16	CLX-2DIM8	Slot 7 Net-Device ID 0B Load Wattage: 1300	OK	OK
Module 17	CLX-2DIM8	Slot 6 Net-Device ID 0C Load Wattage: 3700	OK	OK
Module 18	CLX-2DIM8	Slot 5 Net-Device ID 0D Load Wattage: 2600	OK	OK
Module 19	CLX-2DIM8	Slot 4 Net-Device ID 0E Load Wattage: 3700	OK	OK
Module 20	CLX-2DIM8	Slot 3 Net-Device ID 0F Load Wattage: 2400	OK	OK
Module 21	CLX-1DIM4	Slot 2 Net-Device ID 10 Load Wattage: 1400	OK	OK
Module 22	CLX-2DIM2	Slot 1 Net-Device ID 9D Load Wattage: 1600	OK	OK
Module 23	CAEN-BLOCK	Slot 8	OK	OK



Crestron Lighting Panel Installation



A Smart Home Is A Brilliant Idea.

Control4 offers a complete line of home-automation products that makes sophisticated home-control solutions practical and affordable for every home. With Control4, everything works better because it works together - home theater, multi-room music, lighting, temperature, safety and security systems – are all controlled by a single platform.



Imagine. In one touch, the movie starts, your shades close and the surround sound kicks in at the perfect volume. When the sun goes down, your porch light goes on. And the whole house locks at 11 pm. Automatically. You rush out with the kids to drop them off at school. By the time you get to the office you wonder, "Did I close the garage door?" Check from your phone and relax. Now, live the green life without sacrificing comfort. It's easy to control your house and reduce energy use.



Dream Big. Start Small.

Got your dream concept of control? We'll make it a reality. Because Control4 solutions are entirely modular, it's easy to add more control to your home over time.

- Start simply with just one control solution, like home theater control in a family room
- Experience smart lighting and climate solutions to save energy—and money
- Add peace of mind with door lock and security control

You can always add more features and functionality when time and budget allow. There's no such thing as starting from scratch.

Control4® Solutions...

With more and more smart electronics playing a central role in our everyday lives, you'd think they'd be making life easier. But with so many different technology formats—Blu-ray, Bluetooth, MP3, WMV, HD, 3D, iWhatever and whatever's-coming-next—things are getting more cluttered and complicated, not more convenient. Wouldn't life be better if everything worked together?

- Simple to use, right from a TV, touchscreen or remote control
- Flexible, start small and add more control as time and budget allow
- Limited only by your imagination



Home Theater Simplify your audio, video, and home-theater components with one remote control.



Multi-Room Music Play music from almost any format, in any room, any time.



Lighting Save energy and enjoy the perfect ambiance in every room.



Energy Create a more comfortable home and a more efficient planet.



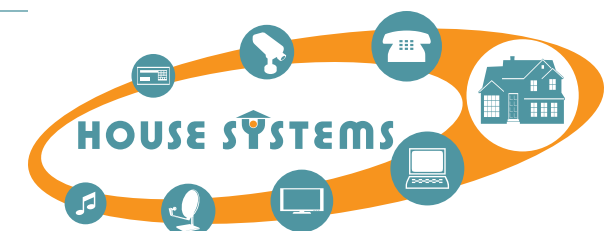
Mobile Access Enjoy control from anywhere—online or on your smart phone.



Security Experience peace of mind with features that enhance your home security.



Control4 Interfaces



Advanced Control Products

RTI specializes in advanced control products for automating the operation of audio, video and entertainment management systems such as lighting and HVAC.

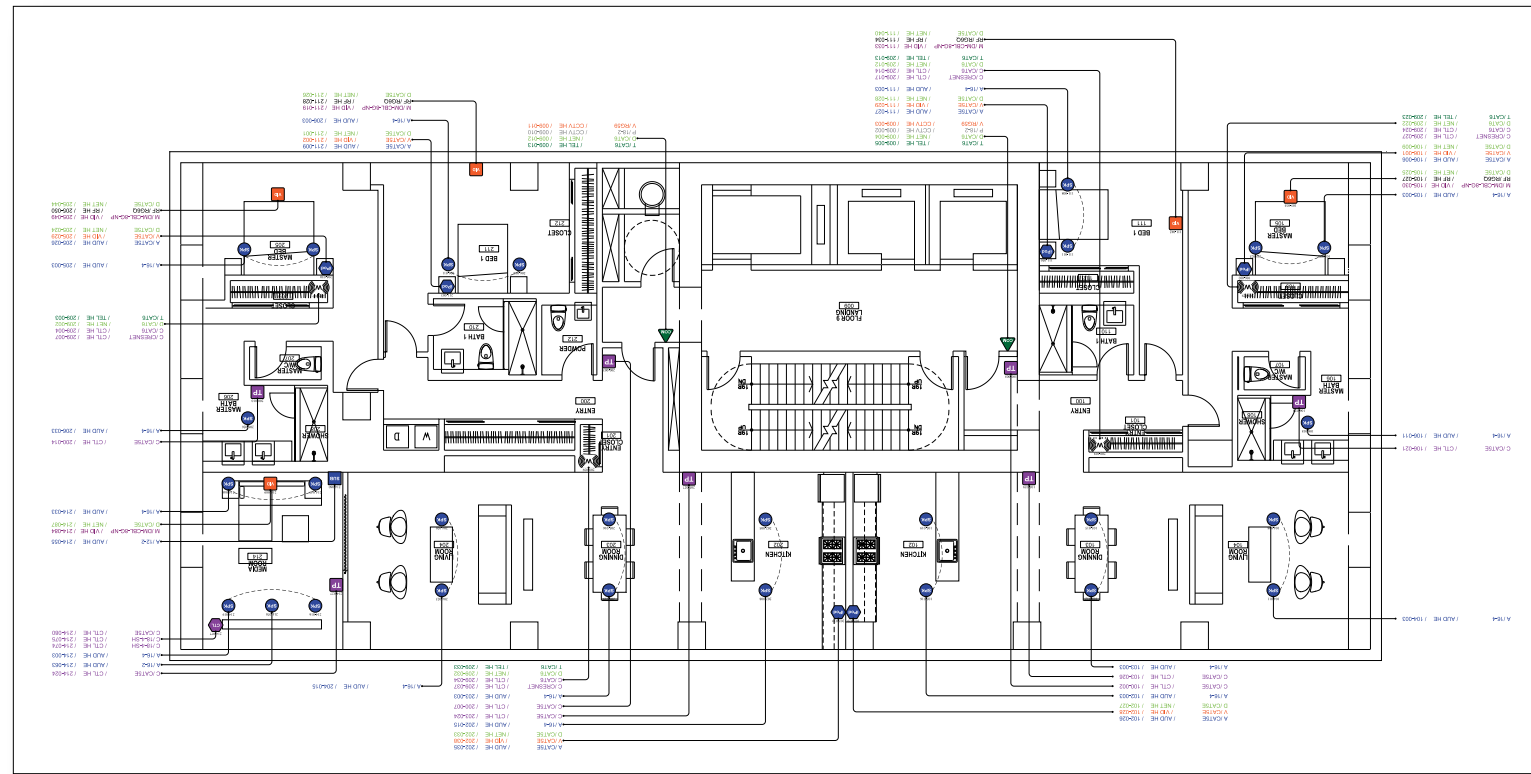


Offering solutions for residential, commercial and transportation applications, RTI products are uniquely designed to meet the needs of the electronics installation professional while providing a simplified interface for the end-user.



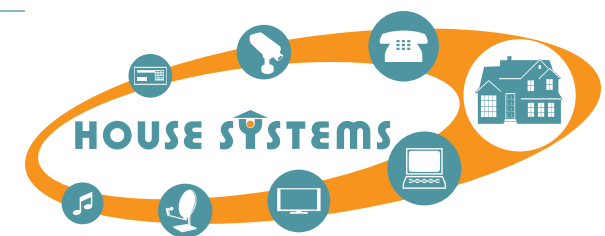
RTI Controls





Project Gallery

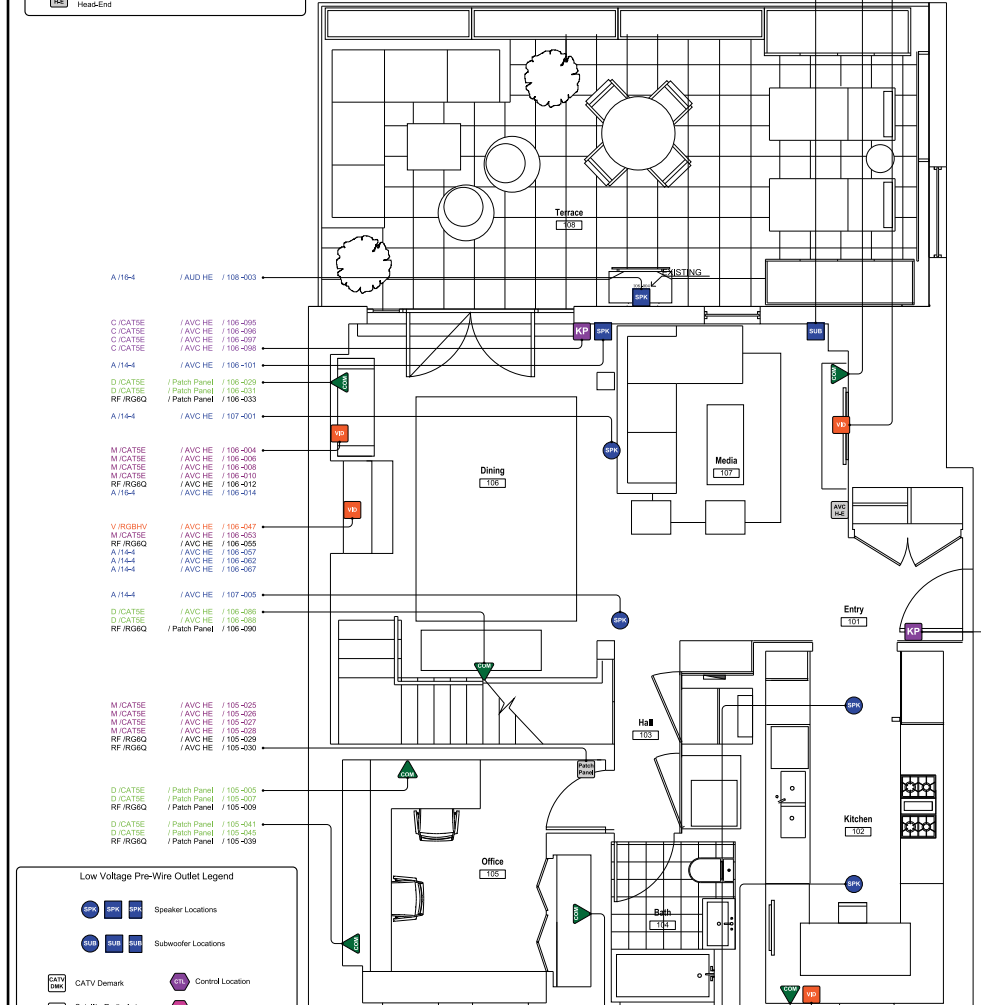
Setting a new standard for systems integration documentation.



Low Voltage Head-End Pre-Wire Legend

- Video Head-End
- Security Head-End
- Network Head-End
- Telecommunications Head-End
- HVAC Head-End
- RF Head-End
- Local Head-End
- Audio/Video Control Head-End
- Lighting Head-End
- CCTV Head-End
- Control Head-End
- Motorized Window Treatment Head-End
- Digital Satellite System Head-End
- Power Head-End

M/CATSE / AVCH HE / 107-414
M/CATSE / AVCH HE / 107-416
M/CATSE / AVCH HE / 107-418
M/CATSE / AVCH HE / 107-420
A/114-4 / AVCH HE / 107-422
M/HDM / AVCH HE / 107-424
M/HDM / AVCH HE / 107-426
D/CATSE / AVCH HE / 107-428
D/CATSE / AVCH HE / 107-430
RF/RGSG / Patch Panel / 107-432
A/114-4 / AVCH HE / 107-434



Low Voltage Pre-Wire Outlet Legend

- Speaker Locations
- Subwoofer Locations
- CATV Demark
- Satellite Radio Antenna Location
- FM Antenna Location
- J-Box Location
- Local Source Location
- Window Treatment Motor Location
- Satellite Dish Location
- Wireless Location
- Audio Location
- Control Location
- CCTV Location
- Lighting Location
- Video Location
- Network Demark
- Telecommunications Demark
- Communications Location
- HVAC Location
- Pod Location

D/CATSE / Patch Panel / 105-401
D/CATSE / Patch Panel / 105-402
RF/RGSG / Patch Panel / 105-403
M/CATSE / AVCH HE / 105-404
M/CATSE / AVCH HE / 105-406
M/CATSE / AVCH HE / 105-408
M/CATSE / AVCH HE / 105-410
RF/RGSG / AVCH HE / 105-412
RF/RGSG / AVCH HE / 105-414
M/CATSE / AVCH HE / 105-416
M/CATSE / AVCH HE / 105-418
M/CATSE / AVCH HE / 105-420
RF/RGSG / AVCH HE / 105-422
RF/RGSG / AVCH HE / 105-424
D/CATSE / Patch Panel / 105-426
D/CATSE / Patch Panel / 105-428
D/CATSE / Patch Panel / 105-430
D/CATSE / Patch Panel / 105-432
D/CATSE / Patch Panel / 105-434
RF/RGSG / Patch Panel / 105-436
RF/RGSG / Patch Panel / 105-438
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RF/RGSG / Patch Panel / 105-442
RF/RGSG / Patch Panel / 105-444
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RF/RGSG / Patch Panel / 105-448
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RF/RGSG / Patch Panel / 105-480
RF/RGSG / Patch Panel / 105-482
RF/RGSG / Patch Panel / 105-484
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RF/RGSG / Patch Panel / 105-490
RF/RGSG / Patch Panel / 105-492
RF/RGSG / Patch Panel / 105-494
RF/RGSG / Patch Panel / 105-496
RF/RGSG / Patch Panel / 105-498
RF/RGSG / Patch Panel / 105-500

Low Voltage Pre-Wire Guide

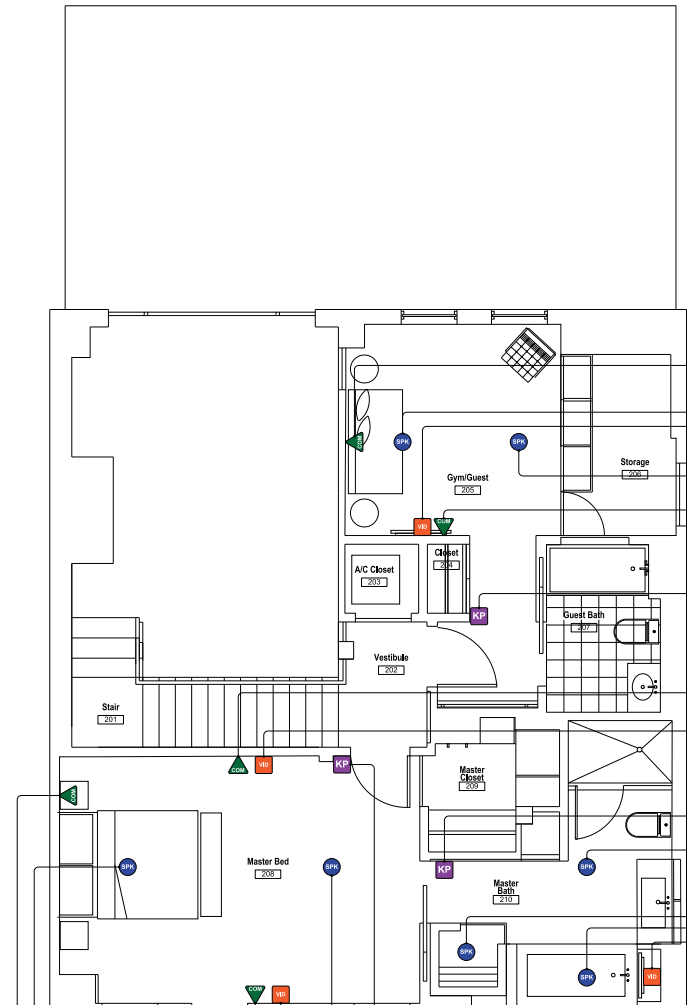
Head-End Denotes The Wire's Destination.
Ex: M/CATSE / AVCH HE / 107-414
The Creator Will Be Routed To The Video Head-End.

Component ID: XXX-XXX
First 3 Digits Are The Room Number
Second 3 Digits Are An Unique ID For This Wire, Room, or Device.

M / CRESFIBER-NF / JVD HE / 103-412
A / 114-4 / AVCH HE / 103-413
A / CATSE / AUD HE / 103-414
C / CATSE / CTL HE / 103-415
C / CRESNET / CTL HE / 103-416

Denotes The Specified Wire Type, Not Model.

For An Understanding Of The Prefixes And Colors, Please See The Color Legend.



RF/RGSG / Patch Panel / 205-015
D/CATSE / AVCH HE / 205-017
D/CATSE / AVCH HE / 205-019
A/114-2 / AVCH HE / 205-004
M/CATSE / AVCH HE / 205-003
M/CATSE / AVCH HE / 205-002
M/CATSE / AVCH HE / 205-004
M/CATSE / AVCH HE / 205-008
RF/RGSG / AVCH HE / 205-008
A/114-2 / AVCH HE / 205-008
D/CATSE / AVCH HE / 205-044
D/CATSE / AVCH HE / 205-048
RF/RGSG / Patch Panel / 205-048
C/CATSE / AVCH HE / 205-055
D/CATSE / AVCH HE / 205-058
C/CATSE / AVCH HE / 205-057
RF/RGSG / Patch Panel / 208-060
D/CATSE / Patch Panel / 208-064
D/CATSE / Patch Panel / 208-062
M/CATSE / AVCH HE / 208-084
M/CATSE / AVCH HE / 208-083
M/CATSE / AVCH HE / 208-085
M/CATSE / AVCH HE / 208-086
RF/RGSG / AVCH HE / 208-087
C/CATSE / AVCH HE / 210-012
C/CATSE / AVCH HE / 210-013
C/CATSE / AVCH HE / 210-014
A/114-2 / AVCH HE / 210-004
A/114-4 / AVCH HE / 210-015
A/114-2 / AVCH HE / 210-008
M/CATSE / AVCH HE / 210-018
M/CATSE / AVCH HE / 210-017
M/CATSE / AVCH HE / 210-019
RF/RGSG / AVCH HE / 210-020

Color Legend

- 133,26,119: Prefix: M for Multimedia
- 241,20,41: Prefix: V for Video
- 46,7,157: Prefix: A for Audio
- 103,26,153: Prefix: C for Control
- 119,18,72: Prefix: D for Data
- 0,10,456: Prefix: T for Telephone
- 191,20,45: Prefix: L for Lighting
- 95,9,29: Prefix: H for HVAC
- 102,0,2,95: Prefix: P for Power
- 204,0,140: Prefix: * for CCTV
- 0,0,0: Prefix: * for CATV
- 0,0,0: Prefix: RF for RSS
- 251,17,64: Prefix: S for Security

PREFIX IS DETERMINED BY THE USE OF THE WIRE ATTACHED



HOUSE SYSTEMS
375 Greenwich Street
5th Floor
New York, NY 10013
T: 212.219.4554
www.houseystems.net

PROPOSAL RELEASE: %0

REVISION:	REVISION HISTORY	DATE:
v.0 (Original Release)		2012/03/01
v.1		2012/03/22

DATES:
CREATED: 3/1/2012
MODIFIED: 3/22/2012
PRINTED: 3/22/2012

NOTES:

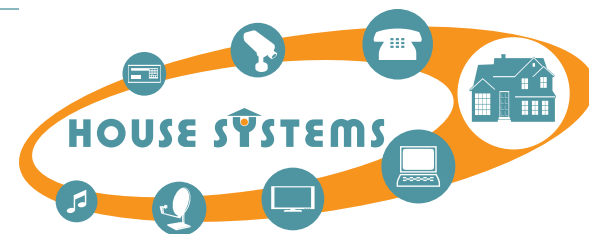
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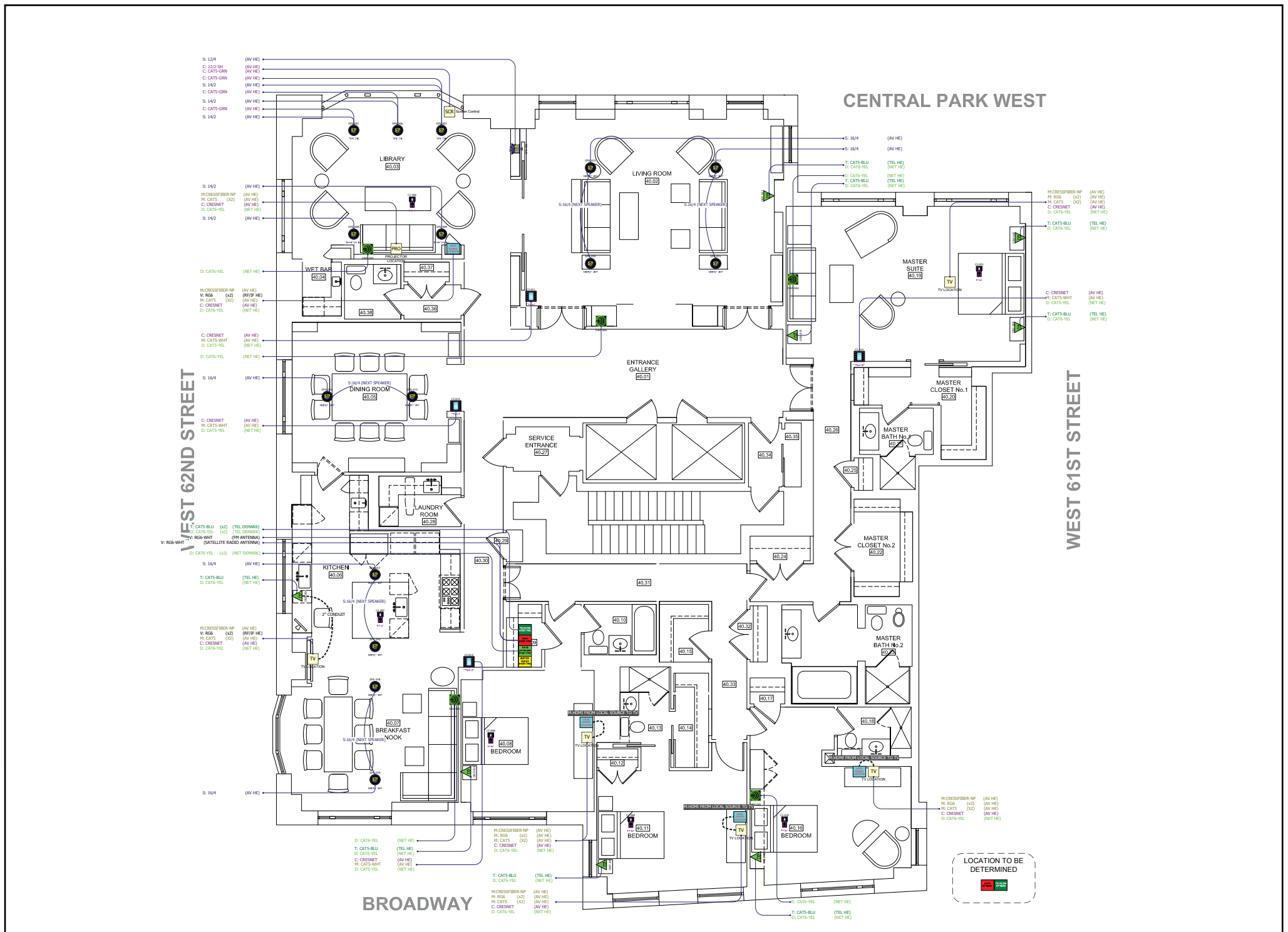
SCALE: Not to Scale
PREPARED BY: MLH
SHEET REFERENCE: LV-1

Bantivoglio

SHEET: Low Voltage Plan

Low Voltage Plan - Small Residential





Woodward Residence v.1

SHEET
Low Voltage Drawing



HOUSE SYSTEMS
7 West 18th Street
7th Floor
New York, NY 10011
Suite 406
Tel : 212-675-9938
Fax : 212-645-8314
Website: www.house-systems.net

REVISION:	REVISION HISTORY	DATE:

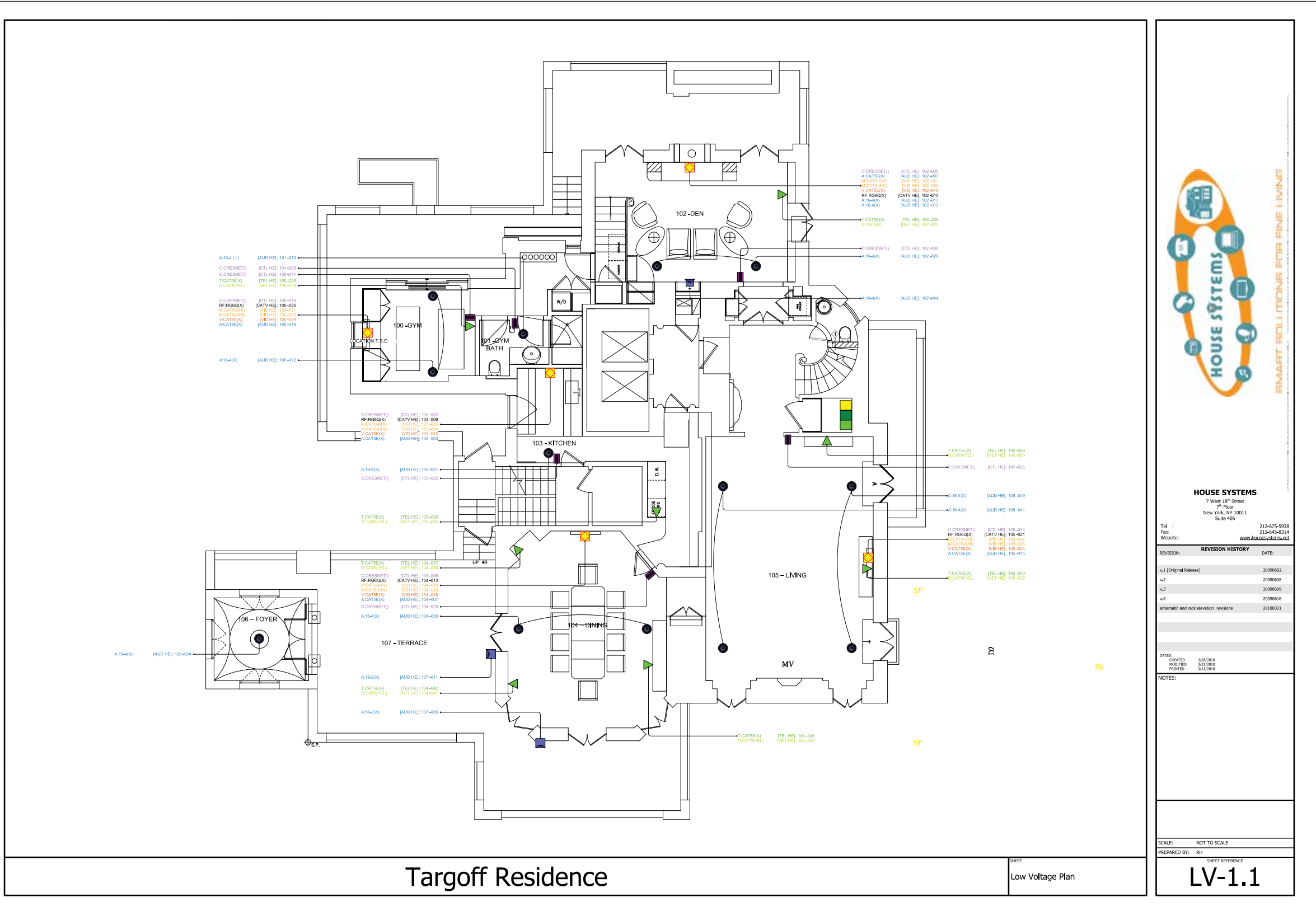
DATES:
CREATED: 6/2/2009
MODIFIED: 6/2/2009
PRINTED: 6/2/2009
NOTES:

PROJECT INFORMATION:
WOODWARD RESIDENCE V.1
SCALE: NOT TO SCALE
PREPARED BY: MLH

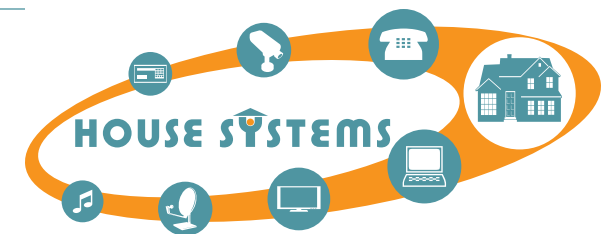
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LV-1.1

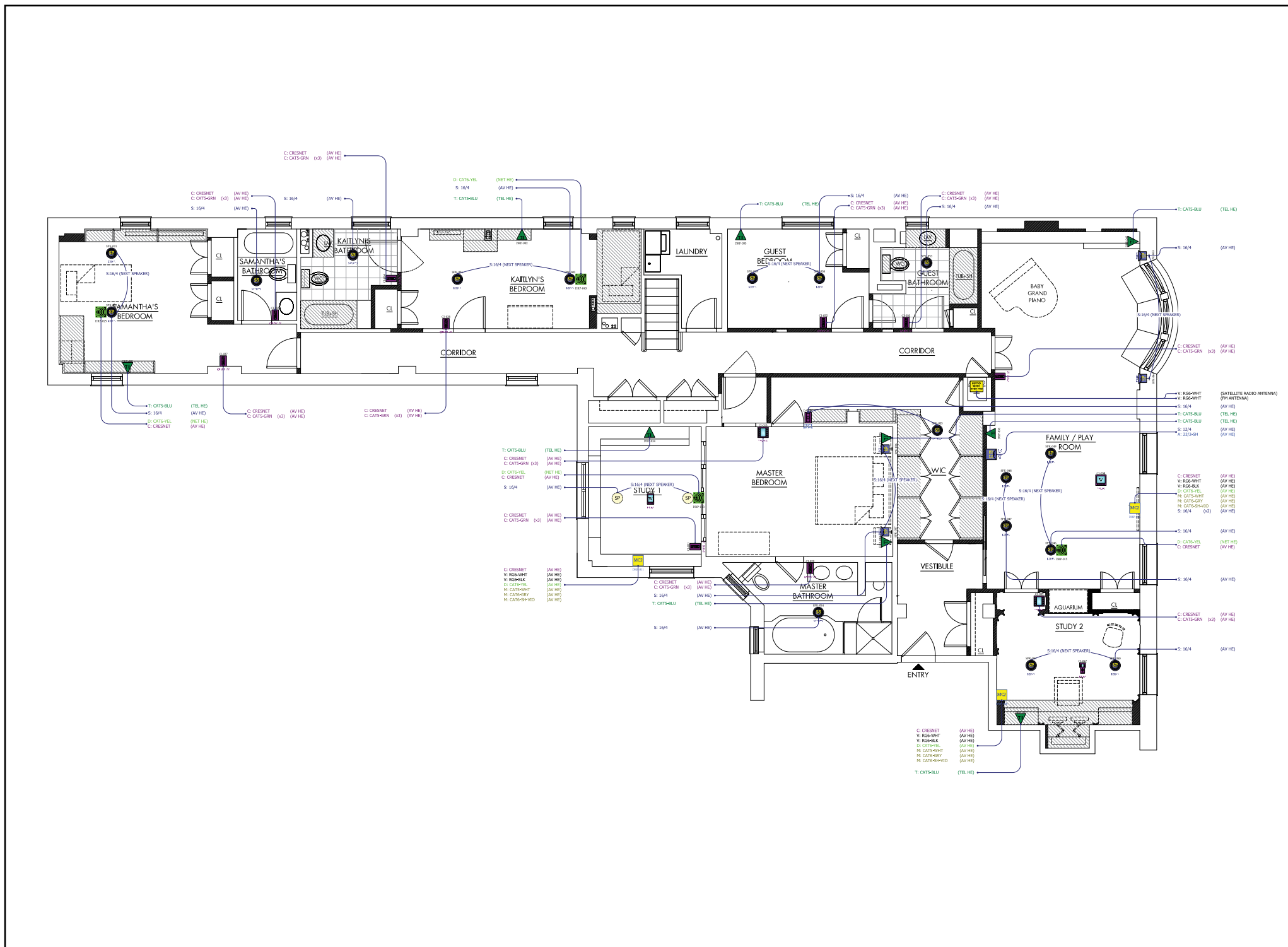
Low Voltage Plan - Large Residential





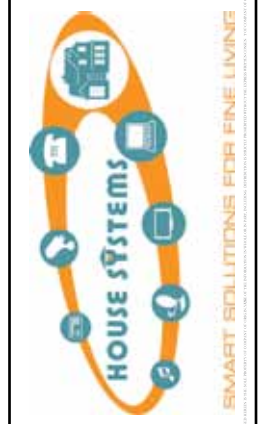
Low Voltage Plan - Large Residential





Pohly Residence v.2

SHEET
Low Voltage Drawing



HOUSE SYSTEMS
 7 West 18th Street
 7th Floor
 New York, NY 10011
 Suite 400
 Tel : 212-675-5938
 Fax : 212-645-8314
 Website: www.house-systems.net

REVISION:	REVISION HISTORY	DATE:
v.2		11-20-2008

DATES:	CREATED	4/13/2008
	MODIFIED	4/14/2008
	PRINTED	4/16/2008

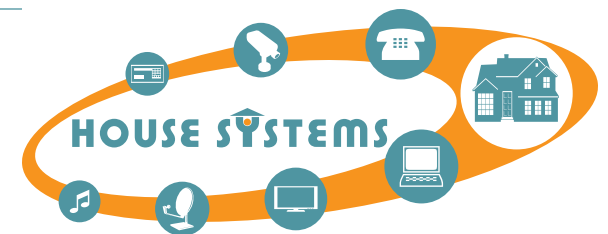
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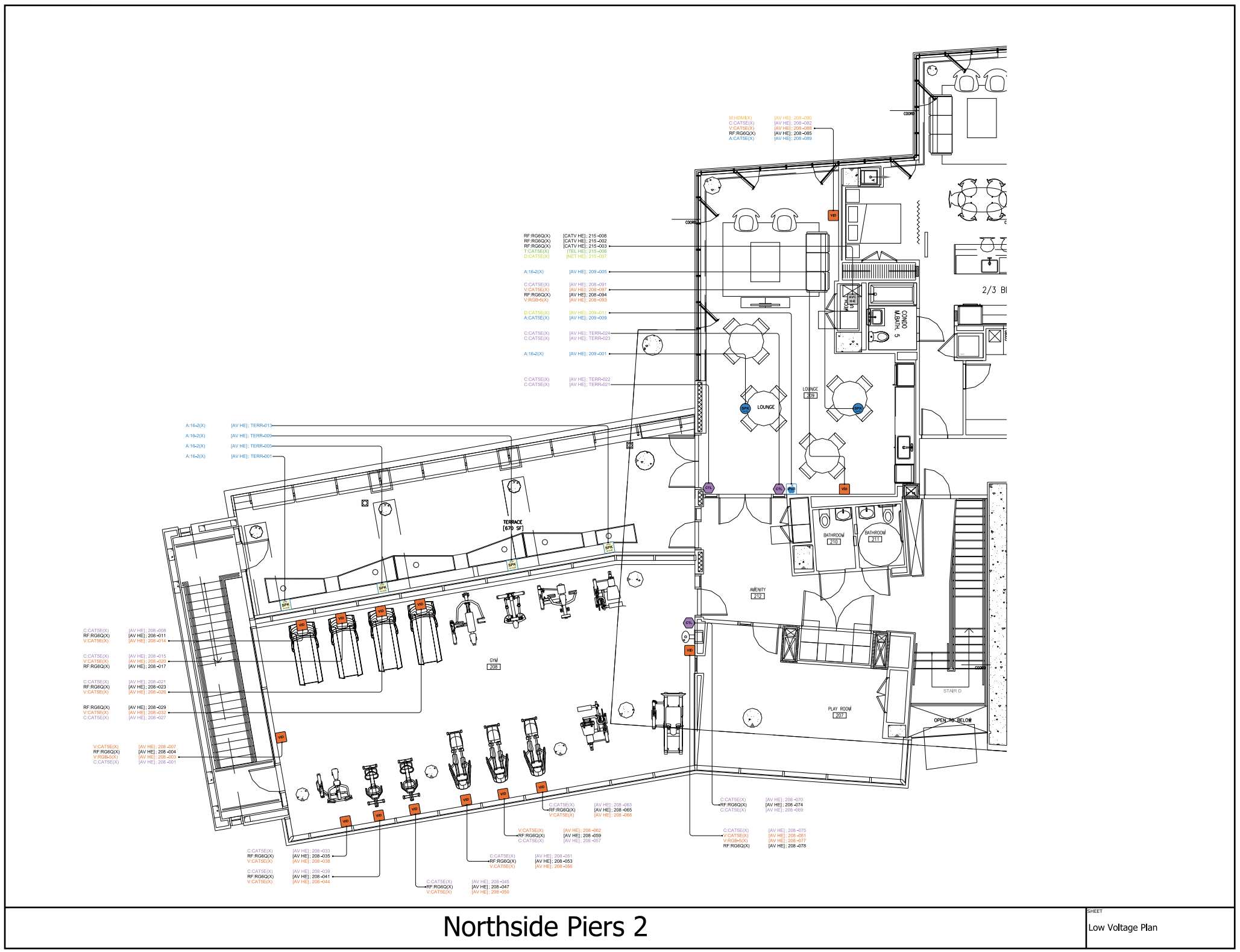
PROJECT INFORMATION:
 POHLY RESIDENCE V.2
 43 37th AVENUE FL 0204
 NEW YORK, NEW YORK 10011

SCALE: NOT TO SCALE
 PREPARED BY: RDH

SHEET REFERENCE
LV-2.1

Low Voltage Plan - Large Residential





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 375 Greenwich Street
 5th Floor
 New York, NY 10013
 T: 212.219.4554
 F: 212.219.4555
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PROPOSAL RELEASE:	REVISION HISTORY	DATE:
v.1		
v.1 (Original Release)		2009-10-16

DATES:
 CREATED: 10/14/2009
 MODIFIED: 10/16/2009
 PRINTED: 10/16/2009

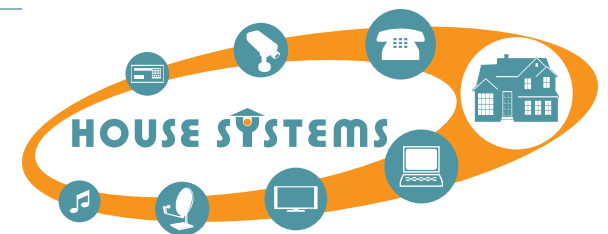
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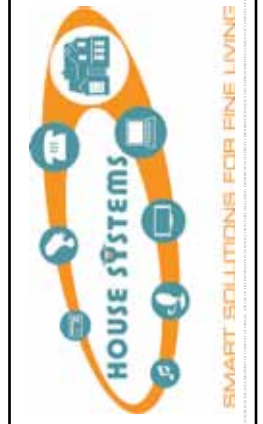
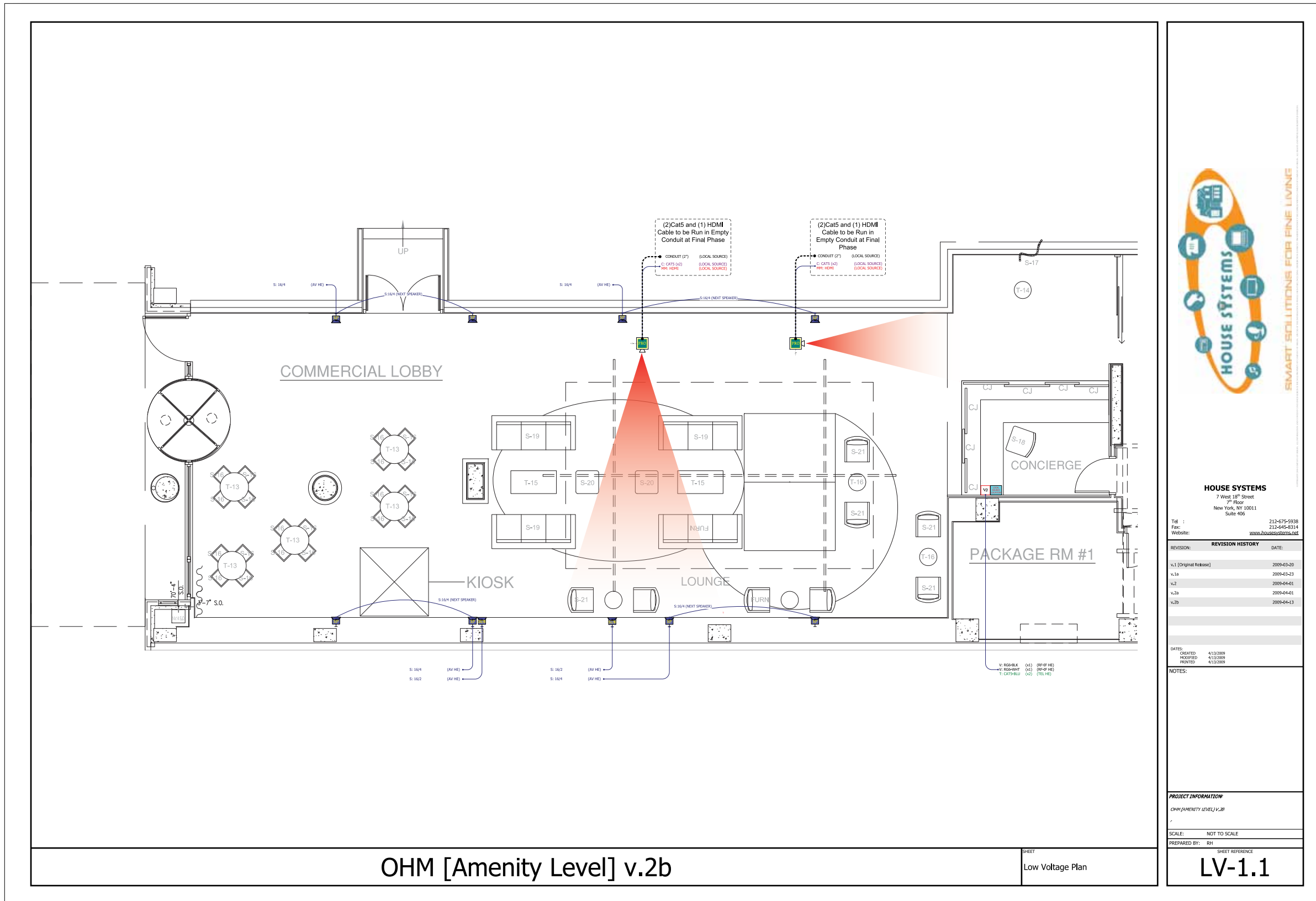
PROJECT INFORMATION:
 NORTHSIDE PIERS 2

SCALE: NOT TO SCALE
 PREPARED BY: RH

SHEET REFERENCE
LV-0.1

Low Voltage Plan - Commercial





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 Suite 400
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 Fax: 212-645-8314
 Website: www.house-systems.net

REVISION:	REVISION HISTORY	DATE:
v.1	[Original Release]	2009-03-20
v.1a		2009-03-23
v.2		2009-04-01
v.2a		2009-04-01
v.2b		2009-04-13

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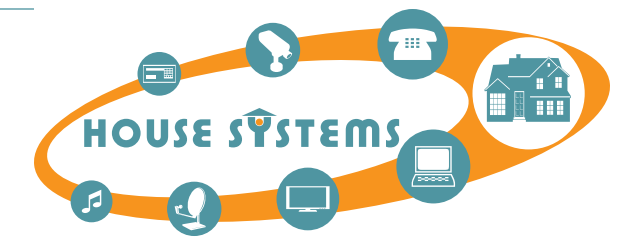
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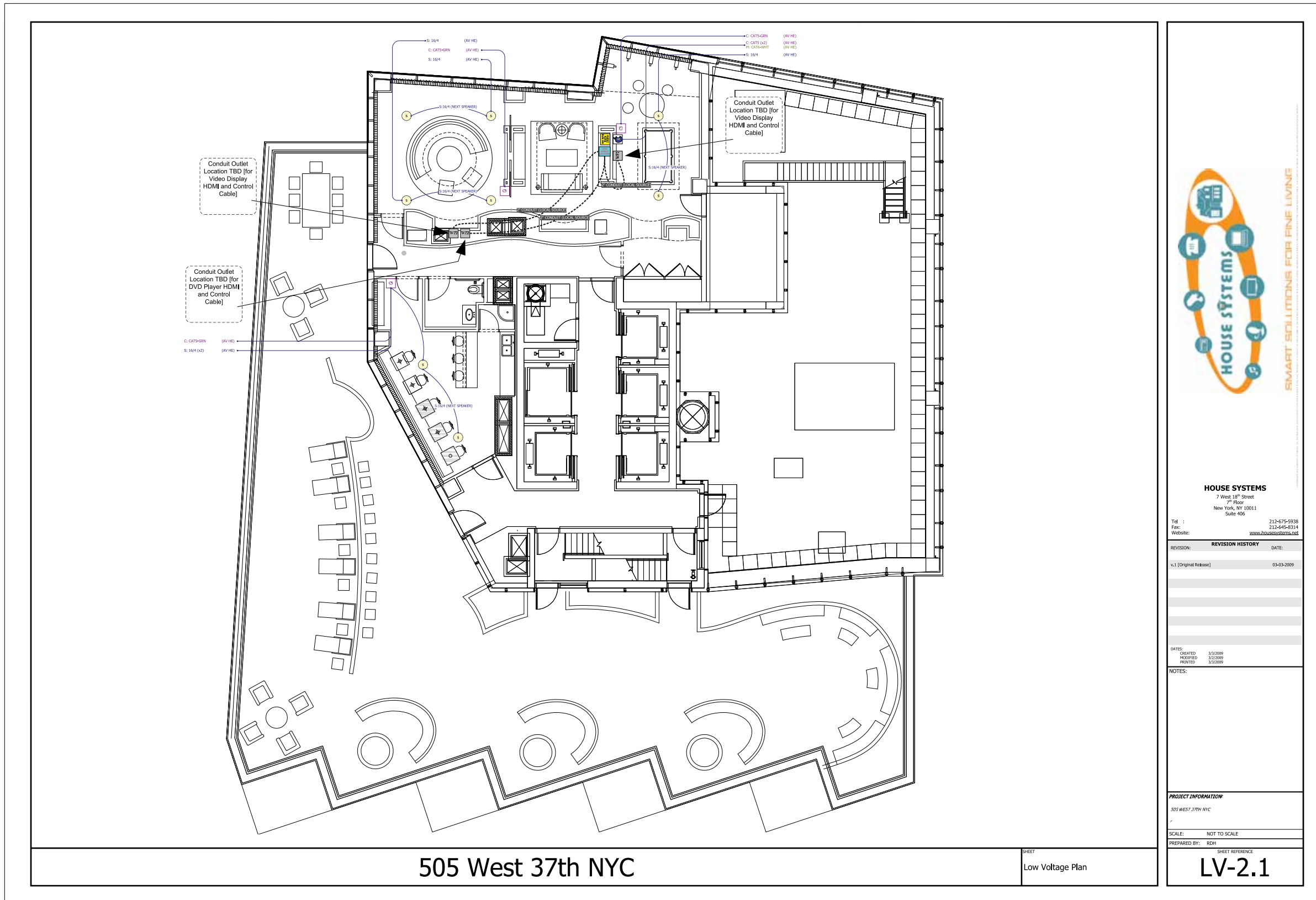
OHM [Amenity Level] v.2b

SHEET
 Low Voltage Plan

SHEET REFERENCE
LV-1.1

Low Voltage Plan - Commercial





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 7th Floor
 New York, NY 10011
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Tel : 212-675-9938
 Fax: 212-645-8314
 Website: www.house-systems.net

REVISION	REVISION HISTORY	DATE
v.1	[Original Release]	03-03-2009

DATE	CREATED	MODIFIED	PRINTED
	3/3/2009	3/2/2009	3/3/2009

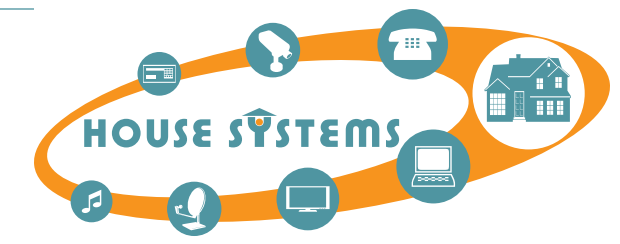
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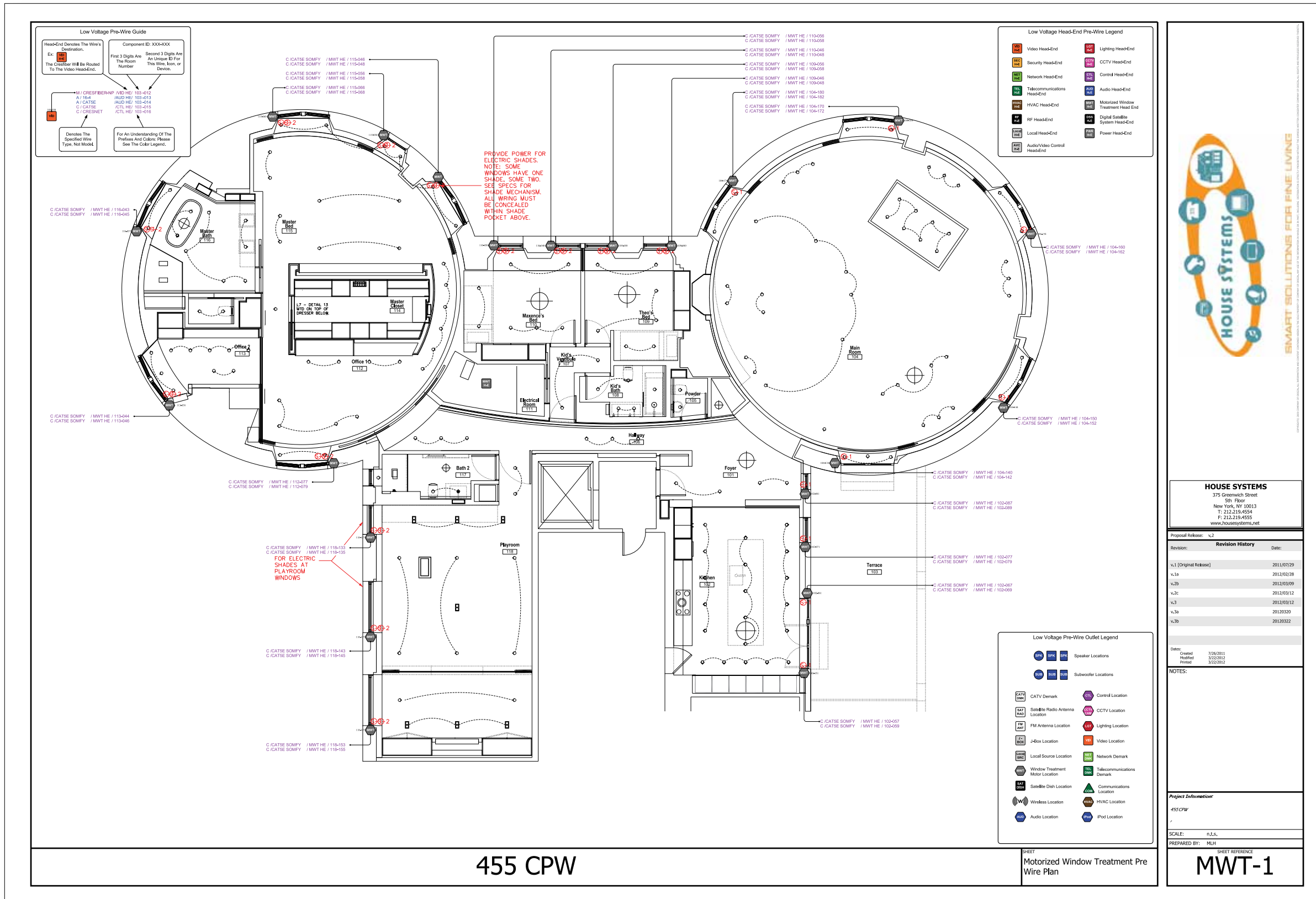
PROJECT INFORMATION:
 505 WEST 37TH NYC

SCALE: NOT TO SCALE
 PREPARED BY: RDH
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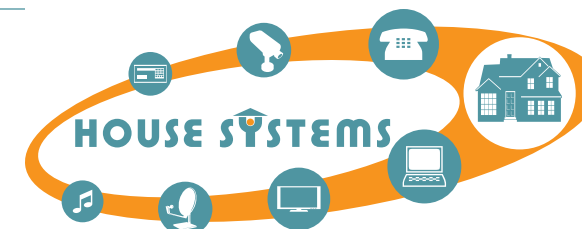
LV-2.1

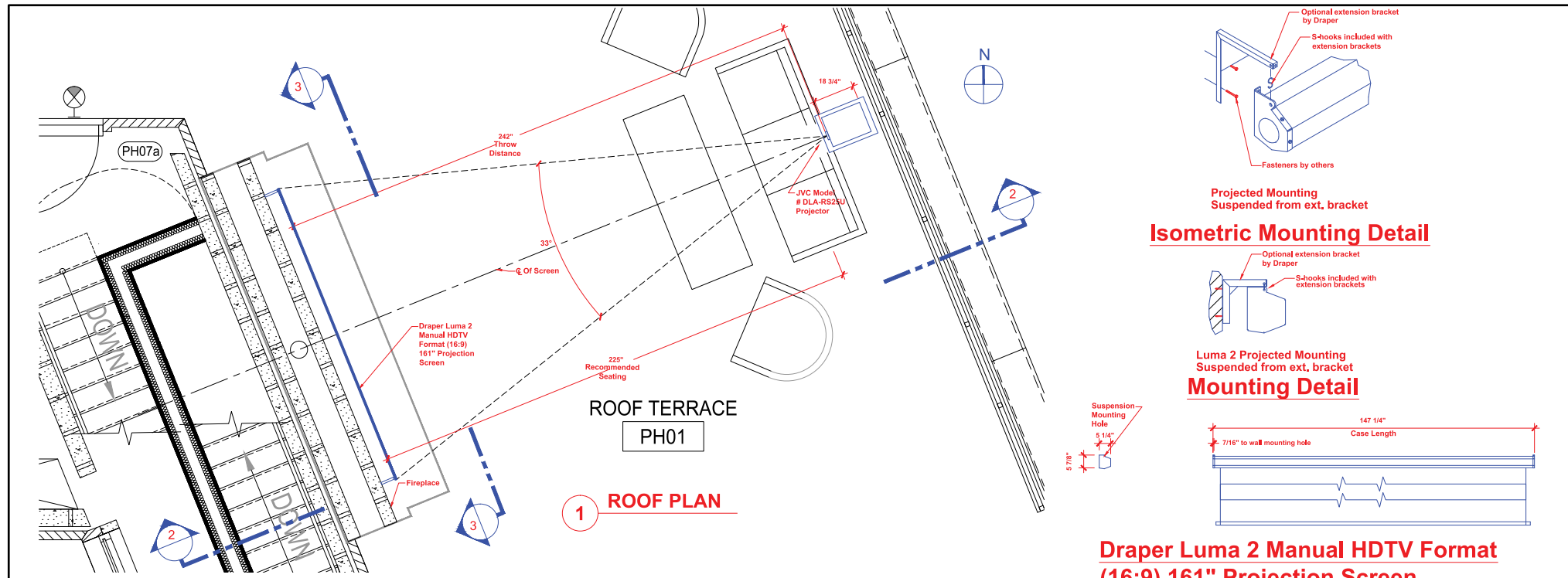
Low Voltage Plan - Commercial



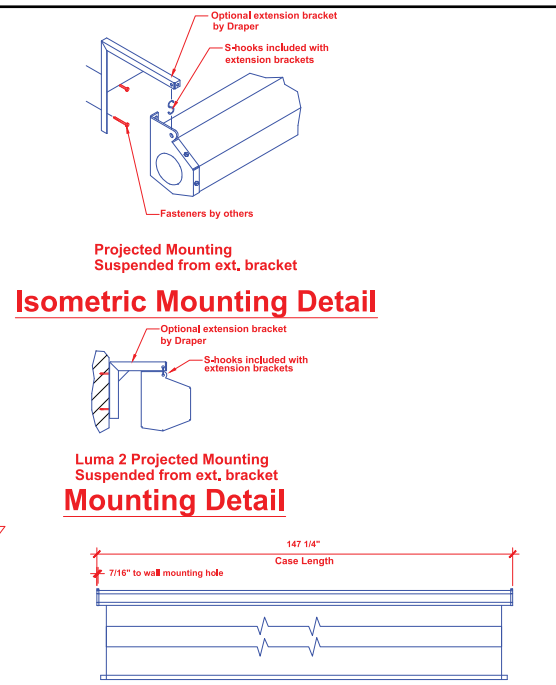


Motorized Window Treatment Pre-Wire Plan

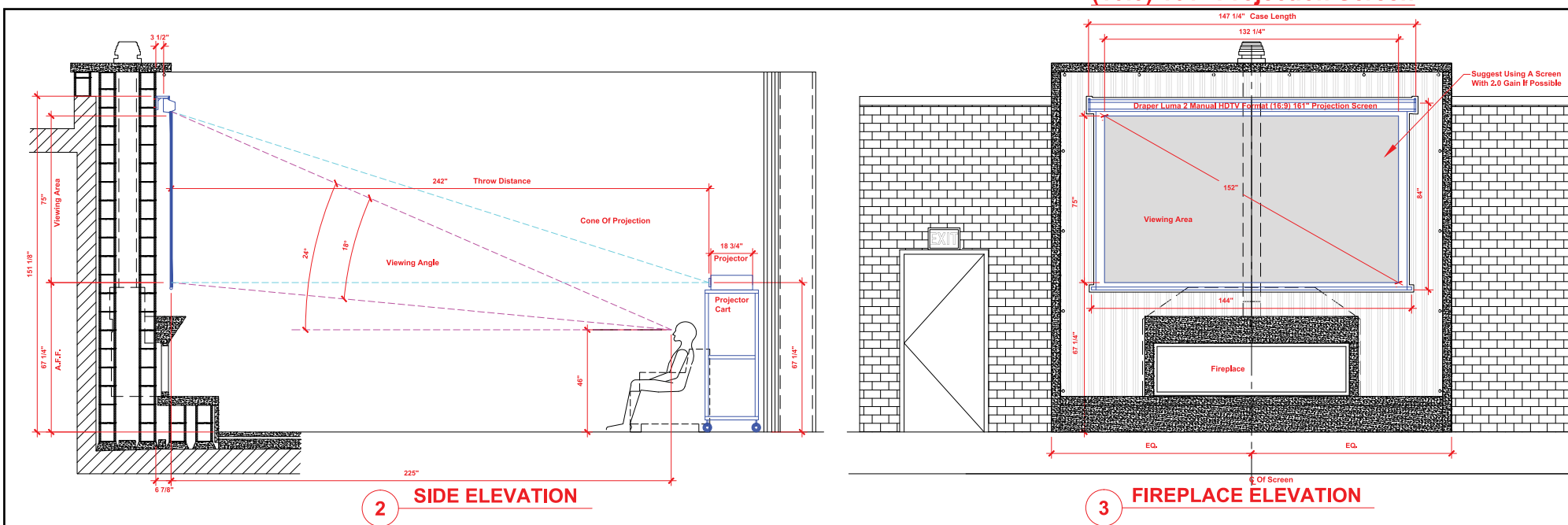




1 ROOF PLAN



Draper Luma 2 Manual HDTV Format (16:9) 161" Projection Screen



2 SIDE ELEVATION

3 FIREPLACE ELEVATION

Gotham 200 West 72nd

Roof Projector Site Lines

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 375 Greenwich Street
 9th Floor
 New York, NY 10013
 T: 212.219.4554
 F: 212.219.4555
 www.house-systems.net

PROPOSAL RELEASE: v.1	REVISION HISTORY:	DATE:
Initial Submittal		05/07/2010
Large Screen Added		05/20/2010

PROJECT ADDRESS
 200 West 72nd Street

SCALE: 1/2" = 1'-0"
 PREPARED BY: RF

D-0.3

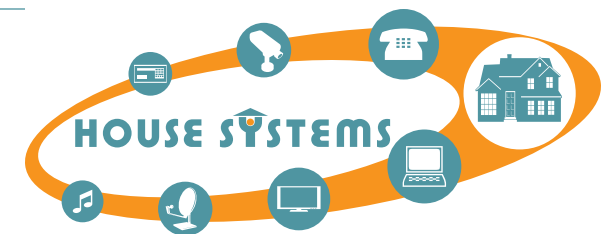
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