

CUDA ELECTRONICS, INC.

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Emerald @ Westridge, Low-Voltage Manual

# Plan 3

EMERALD @ WESTRIDGE, LOW-VOLTAGE MANUAL

# Plan 3

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**Prepared by:**



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## Audio

### Family Room

The family room is pre-wired for:

- 7-channel surround sound system
- Multi-zone audio to Master Bedroom, Bonus Room, Living/Dining Room

#### **7 - Channel Surround Sound**

The surround sound wiring consists of 16 AWG, copper, stranded, speaker wire and is run from behind a blank plate in the media niche to six locations in the ceiling. The locations of the wires are marked on the ceiling by a small white plastic plug.

The family room also includes one shielded coaxial cable for the subwoofer, which runs from behind the blank plate on the wall in the rear of the room to a blank plate in the media niche.

#### **Multi-Zone Audio**

The family room includes a 16/4 speaker wire and Category 5 wire from behind a blank plate in the media niche to a blank plate on the wall in the master bedroom, located near the light switch. This wire is to drive a volume control from the system in the family room.

Also, it includes a 16/4 speaker wire and Category 5 wire from behind a blank plate in the media niche to the wiring enclosure. The purpose of this wire is to allow for future system expansion. This wire may be accessed from the attic and run to other rooms for additional speakers.

Note: The purpose for the Category 5 wire is to allow for Infrared remote control.

## Master Bedroom

The Master Bedroom is pre-wired for:

- 2- channel stereo system
- Multi-zone audio from Family Room

### **2 - Channel Stereo**

The 2-channel sound wiring consists of 16/4 speaker wire and Category 5 wire from behind a blank plate near the video outlet to the volume control location near the light switches. From there two 16/2 AWG, copper, stranded, speaker wires run to the ceiling and is laced between the studs to make them easy to locate with a toner or a fish tool. The locations of the wires are marked on the ceiling by a small white plastic plug.

Note: These speakers may also be used as the rear surround channels.

### **Multi-Zone Audio**

The Master Bedroom includes a 16/4 speaker wire and Category 5 wire from behind a blank plate in the media niche to a blank plate on the wall in the master bedroom. This wire is to drive a volume control from the system in the family room. The wiring will allow for the speakers to be used as multi-zone or surround sound with the installations of a source selector.

Note: The purpose for the Category 5 wire is to allow for Infrared remote control.

## Bonus Room

The bonus room is pre-wired for:

- 5-channel surround sound system
- Multi-zone audio from Family Room

### **5 - Channel Surround Sound**

The surround sound wiring consists of 16 AWG, copper, stranded, speaker wire and is run from behind a blank plate to four locations in the ceiling. The locations of the wires are marked on the ceiling by a small white plastic plug.

The bonus room also includes one shielded coaxial cable for the subwoofer, which runs from behind the blank plate on the wall in the rear of the room to a blank plate in the media niche.

### **Multi-Zone Audio**

The Bonus Room includes a 16/4 speaker wire and Category 5 wire from behind a blank plate in the media niche to a blank plate on the wall in the bonus room. This wire is to drive a volume control from the system in the family room. The wiring will allow for the speakers to be used as multi-zone or surround sound with the installations of a source selector.

Note: The purpose for the Category 5 wire is to allow for Infrared remote control.

### Dining Room

The Dining Room is pre-wired for:

- Multi-zone audio from Family Room

### **Multi-Zone Audio**

The Dining room includes a 16/4 speaker wire and Category 5 wire from behind a blank plate in the media niche to a blank plate on the wall in the Dining room. This wire is to drive a volume control from the system in the family room.

Note: The purpose for the Category 5 wire is to allow for Infrared remote control.

## Video

All Rooms *(excludes Dining/ Living Room)*

### **Satellite/Antenna**

On the Southeast facing side of each home is a blank plate, which houses six RG-6 coaxial cables. These cables run to the wiring enclosure. Most satellite systems use up to four coaxial cables to drive four or more televisions. The extra wire may be used for a FM antenna, high definition antenna, or standard off-air television antenna.

All rooms have two RG-6 Coaxial cables located at the TV outlet. These cables all run to the wiring enclosure. This is where one of the two is to be connected to the satellite source. Both cables may be used to connect a dual source satellite receiver.

### **Cable**

On the side of the garage there is a box labeled "Television." There are two RG-6 coaxial cables in this box. They run to the wiring enclosure, where they may be distributed to rooms requiring cable TV.

All rooms have two RG-6 Coaxial cables located at the TV outlet. These cables all run to the wiring enclosure. This is where one of the two is to be connected to the cable source.

### **Distributed Video**

Because only one of the two RG-6 coaxial cables will be used for satellite or cable it leaves one cable unused. This unused cable may be used for a number of features. Such as a camera system or shared satellite receiver.

## Network

### All Rooms *(excludes Dining/Living Room)*

All rooms are pre-wired for:

- File/Printer/Internet Sharing
- DSL

#### **File/Printer/Internet Sharing**

Each room includes two category 5e cables located at the TV outlet and run to the wiring enclosure. One of these cables is intended to be used as a computer network cable. In order to use this feature the cables need to be terminated in the room needed and in the wiring enclosure. If more than two computers are going to be connected together a hub is required. The hub may be placed in the wiring enclosure. If the purpose of the network is to share Internet connections, then a router/hub is required.

Note: The Kitchen only has one category 5e cable, but may be used for networking and still be used for phone.

#### **DSL**

Two category 5e cables run from a box on the side of the garage labeled "Telephone". These cables run to the wiring enclosure. One of the two is intended to be a separate line for high-speed Internet, such as DSL. A modem is required to use DSL. Usually, this modem is ordered from Pacific Bell. The modem may be placed in the wiring enclosure; there, it may connect to one room or a router/hub.

## Phone

### All Rooms *(excludes Dining/Living Room)*

All rooms are pre-wired for:

- Multi-Line
- Multi-Location

#### **Multi-Line**

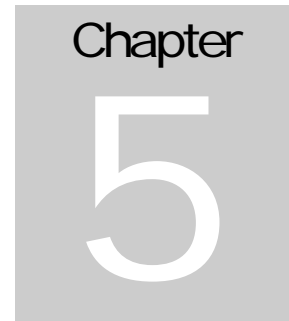
Each room includes a single category 5e cable, which runs from a phone jack to the wiring enclosure. In the wiring enclosure, the cable is terminated on a wiring Telecom Module. One of the two category 5e cables running from the side of the garage is terminated to the Telecom Module as the source.

Category 5e cables include 4 pairs of wire. This means that PacBell may provide you with 4 different phone numbers using that one cable. If more numbers are required the second (DSL) category 5e cable may be used, which makes 8 possible phone numbers.

The jacks are wired for one phone number each. In order to use a multi-line phone the jack must be re-wired accordingly.

#### **Multi-Location**

Each room (except the kitchen) also includes a category 5e cable at the TV outlet. This cable runs to the wiring enclosure, but is not terminated. The purpose of this wire is to allow for the phone outlet to be moved to the other side of the room or offer a phone jack for satellite receivers or TIVO.



## Alarm (except Phase 1)

### **Doors/Windows**

All walk-thru perimeter doors are pre-wired for alarm contacts. These wires run to a blank plate next to the wiring enclosure. All downstairs windows are pre-wired and include a switch.

### **Fire**

An alarm wire is pre-wired near the smoke detector. The smoke detector may be changed to allow for remote fire monitoring service. The wire also terminates next to the wiring enclosure.

### **Keypads**

Three locations are pre-wired for alarm keypads. They are next to the garage door entrance to the house, next to the front door, and next to the light switches in the master bedroom. These locations are not marked or labeled. The wire is laced in the wall and runs next to the wiring enclosure.

### **Siren**

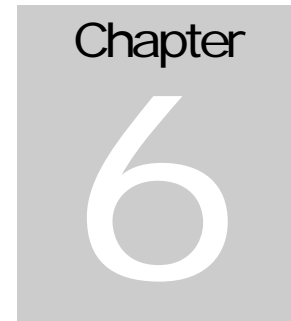
The house is pre-wired for a siren, located in the attic and wired to the plate next to the wiring enclosure.

### **Communication**

An alarm panel may be connected directly to the Telecom Module in the wiring enclosure to allow for remote burglar/fire monitoring.

### **Motion**

There is a motion detector location pre-wired in the stairway, but is not labeled or marked. The wire is laced in between the studs for easy toning or fishing.



## Extras

### **Front Door/Entry**

Near the front door or gate there is one RG-6 Coax and one Cat5E. This cable runs to the wiring enclosure. The purpose of this cable is to allow for future features such as:

- Door Strikes
- Door Cameras
- Intercoms

### **Yard**

The backyard is not pre-wired for audio or video. However, there is a blank plate behind the media niche. The purpose of this plate is to mount a J-box to connect to conduit, which goes underground. The conduit may be run when landscaping and then speakers may be wired to anywhere in the yard and video can be brought to the BBQ. Don't forget to call us before you landscape so that we can help you plan your backyard audio system.

## Contact Info

**For more information about your homes Audio, Video, Data, Voice cabling or to schedule a quote for custom cabling, please contact:**

**Cuda Electronics, Inc                      State Lic. #768961 C-7, HIC**

**Tel: 661-702-1970    FAX: 661-702-1968**

**Email: [info@cudaelectronics.com](mailto:info@cudaelectronics.com)**

**<http://www.cudaelectronics.com>**

**Your home is pre-wired (except phase 1) for an alarm system, if you would like more information about alarms or to schedule a quote for alarm installation and monitoring, please contact:**

**All Systems Go**

**State Lic. # 785383    Alarm Lic. #ACO 40Z4**

**Tel: 661-255-1509    FAX: 661-296-8029**

**Email: [info@asgonline.com](mailto:info@asgonline.com)**

**<http://www.asgonline.com>**

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Distributed Video ♦ Surround Sound ♦ Outdoor Speakers**