

TOLL BROTHERS STRUCTURED WIRING BASE HOUSE

PROVIDES: AN INFRASTRUCTURE TO SUPPORT:

- TELEPHONE OUTLETS
- MULTIMEDIA OUTLETS (CATV or Satellite)
- BROADBAND MODEM CONNECTION

THE BASE HOUSE INCLUDES THE FOLLOWING:

- STANDARD NETWORK INTERFACE PANEL, 18-INCH
 - PASSIVE CABLE TV DISTRIBUTION
 - TELEPHONE DISTRIBUTION W/ RJ45 PATCH CONNECTORS
 - BUILT-IN 110V POWER OUTLET
- 4 EACH -TELEPHONE OUTLETS
 - UPON MOVE IN, OUTLETS WILL BE CONFIGURED FOR 2 LINES.
 - NOTE: TWO-LINE SERVICE MUST BE ORDERED FROM THE PHONE COMPANY.
- 4 EACH- MULTIMEDIA OUTLETS (1 PHONE & 1 TV)
 - BROAD BAND CABLE BOXES & SATELLITE BOXES REQUIRE CATV OUTLETS AND PHONE OUTLETS FOR PICTURE & MODEM DOWN LOAD PURPOSES. SATELLITE PROVIDERS WILL NOT ACTIVATE DECODERS UNTIL DIAL TONE IS DETECTED.
- (1) BROADBAND COMPUTER NETWORK OUTLET
 - THIS WILL PROVIDE INTERNET SERVICE TO ONE COMPUTER.
 - FOR IDENTIFICATION PURPOSES, THE WALL PLATE WILL BE TERMINATED WITH A RED RJ-45 INSERT.



Please Note: Additional phone and Multi-Media outlets cannot be added to the Standard Structured Wiring Package

If needs exceed the above specifications, please see option numbers 440 Advanced Structured Wiring Package and 441 Deluxe Structured Wiring Package with Networking.

If a homeowner has a requirement for **more than one** computer to be connected to the broadband Internet service, option #442, Computer Network option will be required. This option includes 4 network outlets and a 4-port 10/100-computer network hub. Option 441 Deluxe Structured Wiring Package with Networking will also support these requirements.

TOLL BROTHERS 440 ADVANCED STRUCTURED WIRING PACKAGE

PROVIDES: AN INFRASTRUCTURE TO SUPPORT:

- ADDITIONAL TELEPHONE OUTLETS
- ADDITIONAL MULTIMEDIA OUTLETS (CATV or Satellite)
- BROADBAND MODEM CONNECTION

THE BASE HOUSE INCLUDES THE FOLLOWING:

- ADVANCED NETWORK INTERFACE PANEL, 36-INCH
 - **AMPLIFIED CABLE TV DISTRIBUTION**
 - TELEPHONE DISTRIBUTION W/ RJ45 PATCH CONNECTORS
 - BUILT-IN 110V POWER OUTLET
- **6 EACH -TELEPHONE OUTLETS**
 - UPON MOVE IN, OUTLETS WILL BE CONFIGURED FOR 2 LINES.
 - NOTE: TWO-LINE SERVICE MUST BE ORDERED FROM THE PHONE COMPANY.
- **6 EACH- MULTIMEDIA OUTLETS (1 PHONE & 1 TV)**
 - BROAD BAND CABLE BOXES & SATELLITE BOXES REQUIRE CATV OUTLETS AND PHONE OUTLETS FOR PICTURE & MODEM DOWN LOAD PURPOSES. SATELLITE PROVIDERS WILL NOT ACTIVATE DECODERS UNTIL DIAL TONE IS DETECTED.
- (1) BROADBAND COMPUTER NETWORK OUTLET
 - THIS WILL PROVIDE INTERNET SERVICE TO **ONE** COMPUTER.
 - FOR IDENTIFICATION PURPOSES, THE WALL PLATE WILL BE TERMINATED WITH A **RED** RJ-45 INSERT.



THE NETWORK INTERFACE PANEL CAN BE EXPANDED TO SUPPORT THE FOLLOWING:

- (4) Additional Multimedia Outlets (Video outlets will be amplified)
- OR
- (4) Additional Phone Outlets

If needs exceed the above specifications, please see option # 441 Deluxe Structured Wiring with Networking.

If a homeowner has a requirement for **more than one** computer to be connected to the broadband Internet service, option #442, Computer Network option will be required. This option includes 4 network outlets and a 4-port 10/100-computer network hub.

TOLL BROTHERS

441 DELUXE STRUCTURED WIRING PACKAGE W/ NETWORKING

PROVIDES: AN INFRASTRUCTURE TO SUPPORT:

- ADDITIONAL TELEPHONE OUTLETS
- ADDITIONAL MULTIMEDIA OUTLETS (CATV or Satellite)
- BROADBAND MODEM CONNECTION

THE BASE HOUSE INCLUDES THE FOLLOWING:

- DELUXE NETWORK INTERFACE PANEL, 48-INCH
 - **AMPLIFIED** CABLE TV DISTRIBUTION
 - TELEPHONE DISTRIBUTION W/ RJ45 PATCH CONNECTORS
 - BUILT-IN 110V POWER OUTLET
- 9 EACH -TELEPHONE OUTLETS
 - UPON MOVE IN, OUTLETS WILL BE CONFIGURED FOR 2 LINES.
 - NOTE: TWO-LINE SERVICE MUST BE ORDERED FROM THE PHONE COMPANY.
- 9 EACH- MULTIMEDIA OUTLETS (1 PHONE & 1 TV)
 - BROAD BAND CABLE BOXES & SATELLITE BOXES REQUIRE CATV OUTLETS AND PHONE OUTLETS FOR PICTURE & MODEM DOWN LOAD PURPOSES. SATELLITE PROVIDERS WILL NOT ACTIVATE DECODERS UNTIL DIAL TONE IS DETECTED.
- (4) BROADBAND COMPUTER NETWORK OUTLETS WITH HUB
 - THIS WILL PROVIDE INTERNET SERVICE TO **FOUR** COMPUTERS.
 - FOR IDENTIFICATION PURPOSES, THE WALL PLATE WILL BE TERMINATED WITH A **RED** RJ-45 INSERT.



THE NETWORK INTERFACE PANEL CAN BE EXPANDED TO SUPPORT THE FOLLOWING:

- (7) Additional Multimedia Outlets (Video outlets will be amplified)
- AND
- (7) Additional Phone Outlets (Additional phones can be substituted for multi-media outlets)

Computer Network

(4-Station)

Option # 442

Description:

This **4-station** computer network provides multiple users the ability to share computer resources. This is advantageous because it saves the cost of buying multiple printers, Internet accounts, and phone lines for modem access. Users are able to share files from different computers located in different rooms of the house. Users will no longer have to copy files onto floppy disks if they want to use them on another machine. Simply log on to the appropriate computer and retrieve the needed files. This computer network option utilizes Category-5 wire. This wire is designed for high-speed data transfer.

The Network package includes:

- 1 Ethernet Hub – 10\100 Base-T LAN
 - 4 Each Computer Network outlets with RG45 “Home Run” to network interface panel with CAT 5
- Computers and Software not included*

❖ Networking allows

- Multiple users to access a single printer
 - Saves the homeowner the cost of buying separate printers for all computers
 - The Homeowner does not have to have a separate phone line for each computer.
- File sharing
 - Users can access files from another machine in a different room simply by logging on to the other machine
 - No longer will users have to copy files to a floppy disk to use them on another machine.

Computers, Software and system configuration are not included



Additional Multi-Media Outlet (Phone & TV Outlet)

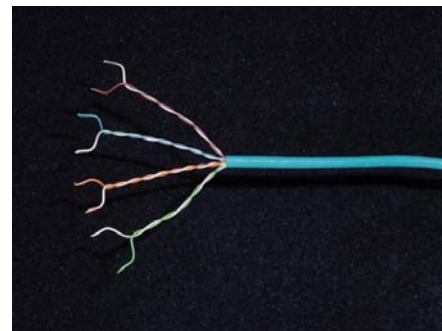
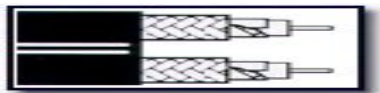
Option # 443

Description:

The homeowner should consider this option for all television locations. Each Multimedia outlet consists of Dual RG-6 quad shield cable and a CAT-5 cable. These terminations allow for Cable TV and Set-Top Box connections. This high quality video cable can support cable TV, digital satellite, attic antennas and even HDTV broadcasts. RG-6 cable is designed to transfer digital signals to TVs without degrading the signal. By running the cable in a “Home Run” configuration, the video distribution can easily be re-configured, as changes are needed. This method is superior to the conventional daisy chain approaches.

- ❖ 1 Each – “Home Run” Dual RG-6 coaxial cable from selected spot
- ❖ 1 Each - “Home Run” Category 5 twisted pair wiring from selected spot
 - Able to pass digital signals without degradation “high band width”
 - The ways we watch television, or even communicate with one another, are changing. Digital technology as well as “convergence” products (WebTV for example) are combining many products into one unit. Using lower performance wire today will limit the homeowners’ ability to take advantage of current and future technologies.
 - HDTV (High-Definition Television) is being broadcast more and within several years will be the primary way the network TV stations are transmitted
 - With lower performance cable, it will not be possible to see all of the advantages of digital source material: higher resolution, sharper picture, greater depth and better sound quality.
 - Using RG-6 wire ensures you will be ready for the future.

Dual RG-6 quad



CAT-5

Note: in preparation for premium cable channels or satellite TV, telephone outlets must be positioned next to TV outlets. Satellite decoders have internal modems and satellite providers will not activate systems until dial tone is detected.

HOME OFFICE OUTLET

Option # 444

“Home Office” Workstations are designed for all professionals, entrepreneurs, students or anyone who wants to connect with the outside world. The outlet configuration provides connectivity for all common components found at the work place, including jacks for telephone, fax machine, modem and cable TV. Installed in a “Home Run” configuration, the outlet includes three CAT-5 cables and 1 Dual RG-6 Quad cable. These high performance cables increase performance and reduce cross talk and static. The homeowner should consider this option for rooms such as home offices, children’s bedrooms or any room they plan to use a computer, including a laptop.

Homenet Workstations include:

- ❖ 1 Each 20-amp dedicated electrical circuit. This will prevent interference and power fluctuations from other home appliances. **(Provided by Electrician)**

- ❖ 3 “Home Run” category 5 twisted pair wire
 - 1 Jack for Dedicated Voice Line (will support 2-line telephone)
 - 1 Jack for Dedicated Fax Line
 - 1 Jack For Dedicated Computer Modem Line

- ❖ 1 “Home Run” Dual RG-6 coaxial cable
 - This wire is high-bandwidth cable to handle digital transmissions
 - Coaxial cable can be used for any of the following:
 - Cable TV
 - Digital Satellite System
 - Local Broadcast channels via an attic mounted antenna
 - HDTV (High-Definition Television)
 - Cable modem for access to the Internet

Spare Telephone-CAT5 / Video-Dual RG-6 to Attic

Option # 445

Description:

Spare TV & Telephone wiring run to attic for future application (i.e. satellite, antenna...).

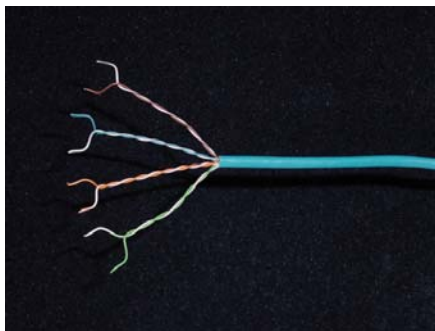
Additional Telecommunication Outlet (Telephone Outlet)

Option # 446

Description:

The homeowner should consider this option for standard voice lines, fax machines, or modems. To ensure optimal performance, Category 5 wiring is used in a “Home Run” configuration. Traditionally, daisy-chained two-pair wire is used in new construction. Category 5 twisted pair wiring offers significantly higher performance and flexibility and reduces the likelihood of negative effects such as cross talk, noise, and static. Category 5 twisted pair wiring consists of **four twisted pair wires** and therefore provides the flexibility of each outlet supporting four phone numbers.

- ❖ 1 Each - “Home Run” Category 5 twisted pair wiring from selected spot
 - This wire is capable of supporting 4 telephone numbers.
 - Upon move in, 2 lines will be ready for use.
 - Twisted pairs offers a reduction in the chance of crosstalk and static
 - Ultra-High Bandwidth for passing digital signals



CAT-5

Video Camera System

Ideal for Front Door Surveillance and to Monitor Infant Rooms & Play Rooms

Option # 447

Description:

External surveillance cameras mounted over the front or back doors can be monitored from any TV, providing an added measure of security to the home. The camera is an unobtrusive ball style camera that is capable of viewing a fairly large area. When used with the communication system one can see and talk to someone at the front door without getting out of bed or favorite chair. Additional cameras can also be placed in other areas of the home, such as over a [baby's crib](#) or in a [playroom](#), and monitored by any television in the house by switching channels.

System includes:

- ❖ 1 GBC BC450 ball style camera
- ❖ 1 Digital modulator
 - The camera can be viewed on all TV's in the house
 - See who is at the front door without actually opening it
 - Provides an extra sense of security to the homeowner



Distributed Music Package (Per Selected Location)

Option # 461

Description:

These speaker options allow the homeowner to enjoy true musical reproduction throughout the house. They should be considered on a per room basis. The cosmetic and functional designs of these in-ceiling speakers are at home in any décor, providing a very clean look with no exposed wires. The placement of these architectural series speakers will provide even distribution of music in any room. By including a volume control, the volume in each room can be turned up or down independently, or turned off completely. All speakers will be “Home Run” to a central point defined as the Audio Home Run Point. This location is the designated spot for the homeowner’s stereo equipment. The high-efficiency design specs and the ultra-flat frequency response make these speakers ideal for all types of listeners.

❖ **Architectural In-Ceiling Speakers** -Ideal for any room where stereo sound is desired.

Consists of:

- 1 pair Elan ME650C 6 1/2 inch in-ceiling speakers
- 1 each Elan Stereo in wall volume control
- 1 each Audio Home Run Point (To be selected by purchaser)

❖ **Exterior Speakers** -Ideal for outdoor patio or deck

Consists of:

- 1 pair Mirage Oasis outdoor speakers
- 1 each Elan Stereo in wall volume control
- 1 each Audio Home Run Point (To be selected by purchaser)

❖ All speaker wiring is Home Run to purchasers specified location and terminated for easy hook up.

❖ Distributed audio provides high quality music throughout the house

❖ Volume in each room can be controlled independently or turned completely off.



Whole House Audio and Communication System

Option # 462

Description:

This package of leading edge equipment allows the homeowner to have high performance audio in three locations in the house. Conveniently, the homeowner may select which music source is playing throughout the home by simply touching a button on the in-wall keypad. Each of the “Three Rooms” offers an independent volume control to allow the precise adjustment of the music volume as needed. Of particular interest is the system’s ability to interface with the front door call box and existing telephones. When the brass front door call box button is pressed, the audio system will mute and the doorbell chime will play through the 3 pairs of speakers. With this technology, the homeowner may use any telephone to talk to the person at the front door. An additional feature is audio muting, which automatically turns down the volume when the telephone rings. Finally, this system provides intercom capability by integrating the phone in the house with this distributed audio system. By simply picking up any phone and pushing # followed by 7, paging will play through the speakers. This option package is a clear and dramatic improvement over conventional approaches to distributed audio, with “better than intercom” whole-house communications.

Package includes:

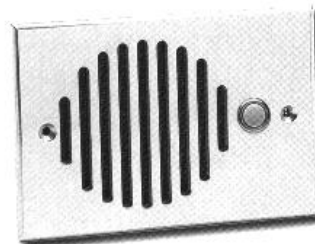
- ❖ 1 Elan AVEC system
- ❖ 2 Elan Z100 in-wall keypad
 - Provides “one touch” system control (select source, turn on system, select disc..)
- ❖ 6 Elan ME650C 6 1/2 inch ceiling speakers
 - Architectural speakers featuring extended frequency response & high power handling
- ❖ 3 Elan stereo in-wall volume controls
 - Volume in each room can be independently adjusted or turned completely off
- ❖ 1 Elan DSRB front door call box with DS1500 door speaker
 - Provides two-way communication with the front door using any touch tone telephone
- ❖ 1 Elan AA13010 input music wall plate, mounted at purchasers specified location
 - This input wall plate is the interface between the homeowner’s stereo equipment and the whole house audio system. (Audio Home Run Point)
 - Stereo Receiver
 - Tape deck
 - CD Player, etc.



Music input Wall Plate
(Specify Location)



Includes 2 keypads
Typically installed
In the kitchen &
Master Bedroom



Front Door Call Box

Stereo Pre-wire (Per Room)

Option # 490

Description:

This option provides the homeowner the ability to prepare a room for rear surround sound speakers. It is important to note the floor plan with approximate locations and height requirements. It is also critical to note the floor plan with the audio home run point, stereo equipment location. This option provides ONLY THE WIRING from the designated equipment location (receiver, CD player, tape deck, etc.) to the speaker location. . This option is designed to support the homeowner's current electronics and speakers.

Multi-Zone Audio & Communications System (3 zone, 12spkr, w/ Electronics)



Option # 491

Description:

This advanced Multi-Zone Audio & Communications System provides the homeowner with great sonic performance in 6 rooms of the house. The system's unique zoning allows the homeowner to simultaneously listen to 3 different sources throughout the house. For example, while one room is listening to a CD; a second room can be listening to a tape, and a third room can be listening to the radio. Included with this system is a Sony 400-disc CD player. The integration of this product also provides the homeowner with the ability to manage the collection of music CDs. The CD player has a unique menu that displays the titles of the entire 400-disc collection, which can be viewed on any TV in the house. This package also includes a high performance AM/FM Tuner. With the integration of keypads, each zone can select a desired audio source as well as common control functions such as play, fast forward, rewind, etc. In addition, the direct access companion keypads expand the capabilities allowing access to tuner stations, CD discs in a carousel or jukebox, DSS or even cable box channels. In-ceiling stereo speakers provide high-quality listening in each zone. The cosmetic and functional designs of these in-ceiling speakers are at home in any décor, providing a very clean look with no exposed wires. The placement of these architectural series speakers will provide even distribution of music in any room.

Of particular interest is the system's ability to interface with the front door call box and existing telephones. When the brass front door call box button is pressed, the audio system will mute and the doorbell chime will play through the 6 pairs of speakers. With this technology, the homeowner may use any telephone to talk to the person at the front door. An additional feature is audio muting, which automatically turns down the volume when the telephone rings. Finally, this system provides intercom capability by integrating the phone in the house with this distributed audio system. By simply picking up any phone and pushing # followed by 7, paging will play through the speakers. This option package is a clear and dramatic improvement over conventional approaches to distributed audio, with "better than intercom" whole-house communications.

Package includes:

- ❖ 1 Sony CDPCX450 400 Disc CD Management Player
- ❖ 1 Digital Modulator (This will display the CD player's menu on all TVs)
- ❖ 1 Parasound TDQ150 AM/FM Tuner
- ❖ 1 Elan Z660 Audio Power Amplifier (6-channel)
- ❖ 1 Elan Z630 Pre-amp Controller (6-source/3-zone)
- ❖ 1 Elan Z600 Communications Controller
- ❖ 3 Elan Z100 in-wall keypad
 - Provides "one touch" system control (select source, turn on system, select disc..)
- ❖ 3 Elan Z150 Direct Access Keypad
- ❖ 6 Elan VSO Stereo Volume Control With Communication Override
- ❖ 12 Elan ME650C 6 1/2 inch ceiling speakers
 - Architectural speakers featuring extended frequency response & high power handling
- ❖ 1 Elan DSRB front door call box with DS1500 door speaker and DS20 brass plate
 - Provides two-way communication with the front door using any touch tone telephone
- ❖ Custom In-wall Equipment Cabinet with glass door



Additional Rooms for Whole House or Advanced Multi-zone Audio & Communications System

Option # 492 Additional Rooms for Whole House Audio & Comm. System Option # 492 Additional Rooms for Multi-Zone Audio & Comm. System

Description:

This option provides the homeowner the ability to **add additional rooms** to either the Whole House Audio & Communications System package or the Advanced Multi-Zone Audio & Communications System package. With the integration of the Stereo **Override** volume control, these additional rooms will interface with the front door call box as well as the existing telephones in the house. For more detailed information, please see the description for the primary package.

Package includes:

- ❖ 2 Elan ME650C 6 1/2 inch ceiling speakers
 - Architectural speakers featuring extended frequency response & high power handling
- ❖ 1 Elan **override** stereo in-wall volume control
 - Volume in each room can be independently adjusted or turned completely off
 - 12 step volume increments
 - This unique volume control provides page / door chime override features.



Multimedia System with 65” HDTV Upgradeable TV

Option # 815

Description:

This option is designed to bring the Movie Theater Experience into your own home. By using high performance electronics and speakers, this system will recreate the experience that the film director wanted the viewer to hear. This system includes a 65-inch Mitsubishi Big Screen TV, 5 voice matched speakers (left, center, right and two rears), an amplified subwoofer, and a Digital Dolby, DTS Surround Sound Receiver. This system not only sounds great, but also looks great. All of the components are housed in custom-built equipment cabinets with glass doors. In addition, the TV is flushed in the wall, exposing only the screen. This approach creates a very clean look and prevents exposed wires. This option is ideal for anyone who enjoys watching movies, sports, or even standard network programs.

Package includes:

- ❖ 2 custom equipment cabinets with glass door & trim
- ❖ 1 Mitsubishi Projection TV
 - WS-65411 65-inch HDTV upgradeable television
- ❖ 5 NHT Superone In-Wall, Dolby Digital, architectural speaker (3 front & 2 rear)
- ❖ 1 Mirage LS150 powered subwoofer
- ❖ 1 Sony STR-DE985 Dolby Digital / AC-3 surround sound receiver
- ❖ 1 VHF/UHF attic-mounted antenna system
- ❖ Wiring, installation and training (In home orientation with purchaser).



65-Inch Television

**DISCLAIMER: THE ABOVE PICTURE IS FOR ILLUSTRATION PURPOSES ONLY
PLEASE SEE MODEL HOME FOR ACTUAL ROOM LAYOUT**

Cinema Room with 110" HDTV Upgradeable Front Projection TV

Option # 813

Description:

This option provides the ultimate in Home Theater Entertainment. The foundation of the screening room is a 100-inch wall mounted screen and a Sony LCD ceiling mounted front projection TV. Complimenting this movie theater like presentation is a Digital Dolby surround sound system. It includes an AC-3 / DTS Receiver, 5 voice matched architectural in-wall speakers (left, center, right and two rears), and a powered subwoofer. The customized installation provides for maximum utilization of the room and its acoustics. A custom equipment rack recessed in the wall creates an ultra clean look hiding all cables and wires, a common complaint with standard systems. This screening room is ideal for anyone who enjoys watching movies, sports, or even standard network programs.

Package includes:

- ❖ 1 Sony VPLVW12HT LCD Projector
- ❖ 1 Sony VPLVW12HT ceiling mount
- ❖ 1 100 -Inch Wall Mount Screen with Black Frame
- ❖ 1 Denon AVR2802 AC-3 / DTS Surround Sound Receiver
- ❖ 1 Denon DVD1600 DVD / CD Player
- ❖ 1 Mitsubishi HSU778 SVHS VCR
- ❖ 5 NHT Superone In-Wall, Dolby Digital, architectural speakers
- ❖ 1 Sunfire True subwoofer MKII Powered Subwoofer
- ❖ 1 Custom Equipment Rack with Glass Door
- ❖ Wire, Cables and Installation



110-Inch Screen

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PLEASE SEE MODEL HOME FOR ACTUAL ROOM LAYOUT**