

# THE TECHNOLOGY XCHANGE

DESIGN AND ENGINEERING SERVICES

877.361.0499

www.thetechnologyXchange.com



1821 STANFORD AVENUE  
REDONDO BEACH  
CALIFORNIA 90278

eVOICE 877.361.0499  
eFAX 562.286.9226

www.thetechnologyxchange.com  
info@thetechnologyxchange.com

## ABOUT US

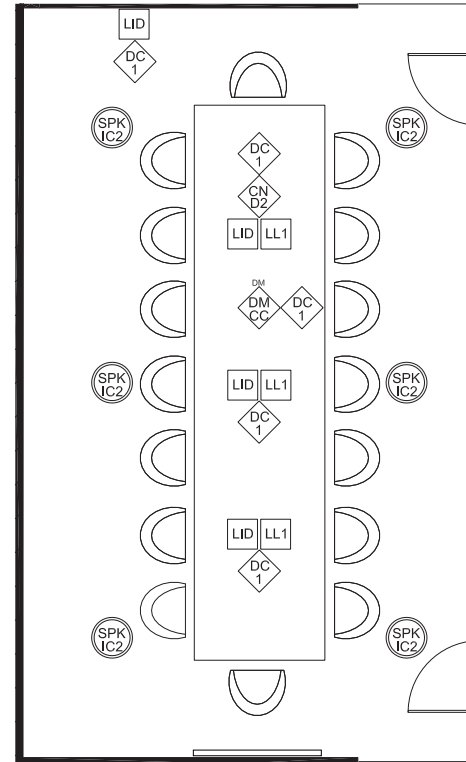
Founded in 2008 with over 35 years of industry experience, The Technology Xchange provides a dynamic suite of consulting, design, engineering and deployment services to the contracting, engineering, architectural and construction industries.

We have developed our own proprietary methods and symbols which give us the ability to provide our clients with objective logical system designs, drawings and specifications in addition to project management and deployment assistance.

As our industry continues to evolve, as manufacturers continue to innovate, as the end-user becomes more educated and demanding and as technology continues its path of convergence our team of highly skilled professionals will be there to make sure our clients projects are designed and managed with their best interests in mind.

With our solutions based approach and our expanding list of products & services, we have the tools to help our partners always achieve a successful outcome in the ever changing technology industry.

## DRAWINGS



## MENU OF SERVICES

### Services

- Auto CAD
- System Scope
- Specification
- System Layout Plan-View
- Cabling Requirements
- Rack Elevations
- System Design and Engineering
- Line / Riser Diagrams
- Equipment Schedules
- Budgeting

### Specialties

- Audio Video
- Automation and Control
- Video Conferencing
- Distributed Audio
- Theater Design
- Video Surveillance
- Intrusion Detection
- Access Control
- Digital Signage
- DataComm

KEYNOTE:

COVERING ALL DISCIPLINES OF LOW VOLTAGE TECHNOLOGY

© Copyright 2012 The Technology Xchange

SYMBOL	DESCRIPTION	WIRE TYPE ID	ROUGH-IN OR BACKBOX SIZE	DETAILS (FOR WIRE TYPE ID USE WIRE DESCRIPTION ONLY)
	SPEAKER, ROUND IN CEILING 70V	B4.2	BASED ON SPEAKER SIZE	AWG #16 2-CONDUCTOR UNSHIELDED HIGH STRAND COUNT COMMERCIAL SPEAKER CABLE WITH OVERALL JACKET UNLESS OTHERWISE NOTED FOR 70 VOLT / PAGING CONNECTIONS.
	LINE LEVEL AUDIO LINES, ONE PAIR	B15	SINGLE GANG PLASTIC	ONE PAIR AWG #24 STRANDED TINNED COPPER, INDIVIDUALLY TWISTED/SHIELDED PAIRS W/ 100% COVERAGE PLUS OVERALL SHIELD W/ 100% COVERAGE CAPABLE OF ANALOG AND OR DIGITAL AUDIO SIGNALS.
	LOCAL SOURCE INPUT DIGITAL	B14	SINGLE GANG PLASTIC	FOUR CATEGORY-6 23-AWG 4-PAIR SOLID UTP DATA CABLES. USE ONLY MANUFACTURER APPROVED 6-PAIR RJ45 CAT-6 MODULAR CONNECTORS, JACKS AND PATCH PANELS. REQUIRES 110VAC RECEPTACLE.
	DC CONTROL LINE, ONE PAIR	C13	NA	ONE PAIR AWG #18 STRANDED JACKETED FOR LOW & MEDIUM CURRENT LOADS (RELAYS, SWITCH LAMPS, LEDs, BALLASTS, ROOM BOXES, TRANSFORMERS ETC...). NUMBER OF CONDUCTORS TO BE DETERMINED BY APPLICATION.
	CONTROL NET + 2 CAT 6	C3	NA	ONE PAIR 22AWG TWISTED SHLDED, ONE PAIR 18AWG UN-TWISTED UN-SHIELDED & TWO CAT6 DATA CABLE IN OVERALL JACKET. CONTROL NET BUSS CABLE FROM AV EQUIPMENT/CONTROL SYSTEM EQUIPMENT.
	DIGITAL MEDIA COAX	C6.1	NA	TWO CATEGORY-6 UTP 23-AWG 4-PAIR SOLID UNSHIELDED TWISTED PAIR DATA CABLES. USE ONLY MANUFACTURER APPROVED 6-PAIR RJ45 CAT-6 MODULAR CONNECTORS, JACKS AND PATCH PANELS. ONE 60-ohm SHIELD-18AWG SOLID BARE COPPER 75-ohm COAXIAL CABLE 100% SWEEP TESTED 0.3MHz - 3.1GHz. USE ONLY MANUFACTURER APPROVED F-TYPE COMPRESSION CONNECTORS. USE TS 01M/F-TERMINATOR WHEN NOT IN USE.

PROJECT

**YOUR PROJECT INFORMATION HERE**

CONTRACTOR

**YOUR COMPANY INFORMATION HERE**

REVISIONS

No.	Revision/Issue	Date

Stamp	N/A
-------	-----

Description	TTX SYMBOLS
Date	08.23.12
Scale	Sheet TTX 1.0