



ACT INSTALLS — FOR BUILDERS

Builder Technology Planning Guide

A field reference for coordinating low-voltage, technology rough-in, and commissioning alongside your existing construction schedule.

Technology integration fails or succeeds on the job site long before any equipment is powered on. Most callbacks and change orders trace back to a rough-in decision made without technology input, or a trade conflict that surfaced after drywall.

This guide gives general contractors and site superintendents a working overview of where technology touches the build schedule, what to coordinate with electrical and HVAC, and what to check before handoff. It is meant to sit in the site trailer, not the design binder.

01 Pre-Construction Review

Luxury Technology Advisor reviews architectural and electrical plans to confirm rack location, pathways, and scope before framing begins.

02 Rough-In Walkthrough

On-site coordination with framing and electrical trades to verify cable routes, device locations, and structured wiring before insulation and drywall.

03 Trade Coordination

Power, grounding, and HVAC requirements for the rack and equipment zones are finalized with the electrical and mechanical contractors.

04 Trim and Device Install

Displays, speakers, keypads, sensors, and network hardware are installed once finishes are in place.

05 Programming and Testing

Control system programming, network configuration, and individual subsystem testing take place ahead of final commissioning.

06 Final Commissioning and Handoff

Full system walkthrough, punch-list resolution, and documentation handoff are completed before the general contractor closes out the project.



Pre-Construction Alignment

The earlier a Luxury Technology Advisor reviews plans, the fewer conflicts surface during framing.

Pre-construction alignment sets locations for racks, panels, and pathways before walls exist to argue about.

- ☐ Confirm equipment room or rack location, ventilation, and power requirements
- ☐ Mark conduit and cable pathway routes on the electrical set
- ☐ Flag structural elements affecting speaker, display, or shade placement
- ☐ Identify exterior technology zones (Outdoor Living™ audio, landscape lighting, gate/access) before hardscape and irrigation lock in
- ☐ Establish a single point of contact for RFIs on the technology scope

Rough-In Coordination During Framing

Rough-in is the highest-risk phase for technology scope. Once insulation and drywall schedules are set, changes become expensive for everyone on site, not just ACT Installs.

- ☐ Verify low-voltage cable counts and terminations against the current design set, not an earlier revision
- ☐ Coordinate in-wall and in-ceiling speaker, display, and shade motor locations with framers before insulation
- ☐ Confirm structured wiring backbone routes back to the rack location
- ☐ Walk network and security device locations (access points, cameras, sensors) with the electrician to avoid interference and blocked sightlines
- ☐ Schedule a rough-in walkthrough before drywall closes the walls

Trade Coordination: Electrical and HVAC

Technology systems depend on clean power and controlled environments. Coordinating early with electrical and HVAC avoids rework and protects equipment reliability once the home is occupied.

The Estate Network™ backbone and rack infrastructure both require dedicated circuits and adequate cooling — these should be confirmed on the electrical and mechanical drawings, not assumed.

- ☐ Dedicated, clean power circuits for the rack location and key equipment zones
- ☐ Surge protection and grounding coordinated with the electrical contractor



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- ☐ HVAC provisions for equipment room cooling load
 - ☐ Clear labeling and circuit documentation for the electrician's panel schedule
 - ☐ Confirmation that lighting control and shading tie-ins align with the electrical rough-in, not a later retrofit

Quality Control and Final Commissioning

Before handoff, every system should be tested under real conditions, not just powered on. Final commissioning is where One Touch Living™ control, network performance, and individual subsystems get validated together, so the owner's first experience in the home is a working one.

- ☐ Punch-list walkthrough of all rough-in and trim items against the design set
- ☐ Full system testing: network, security, audio/video, lighting, and shading
- ☐ Control system programming verified against the intended scenes and schedules
- ☐ Documentation package assembled for the owner and facilities team
- ☐ Final walkthrough scheduled with the general contractor prior to owner occupancy

Questions about scheduling or scope on a specific project? Reach out to ACT Installs — we're glad to walk the plans with you.