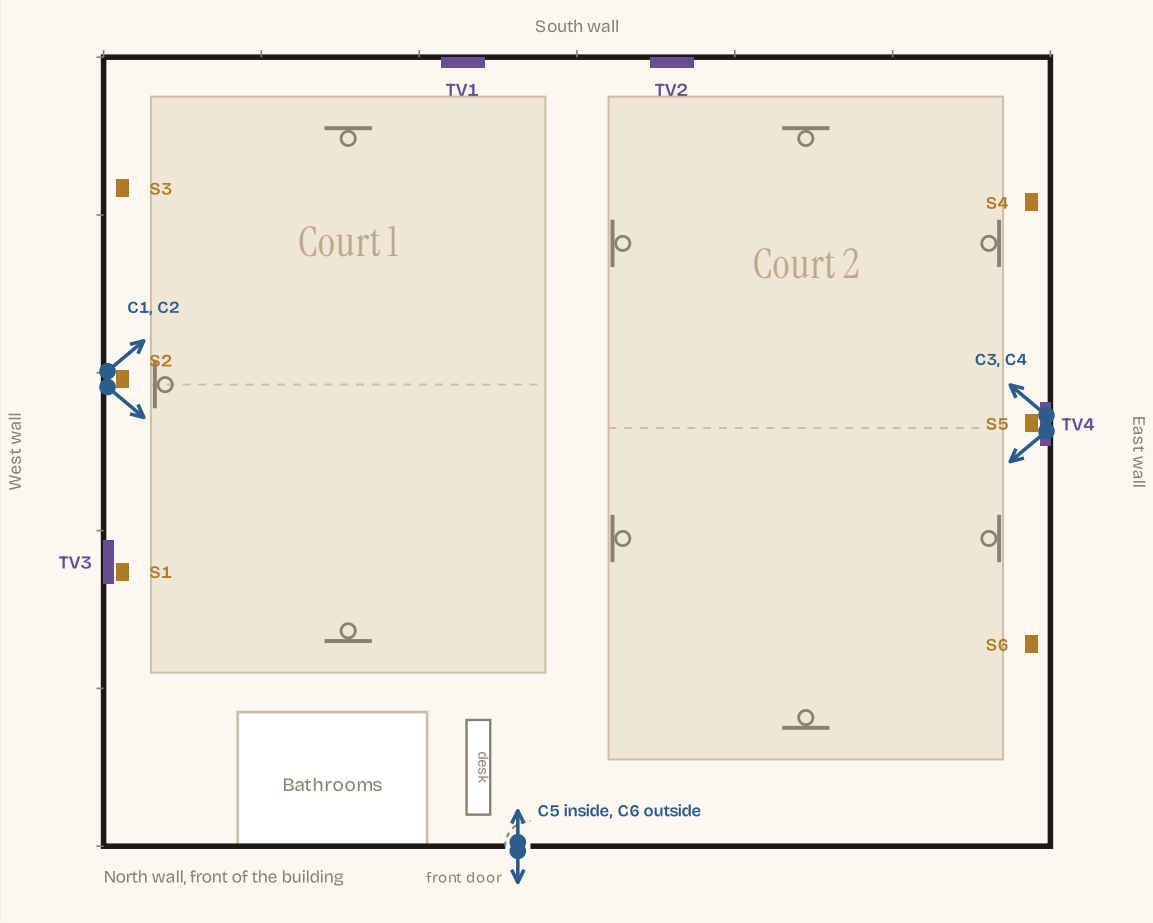
# Items to bid, for Steve

Thanks for meeting today. We buy all the equipment. Please price each item on its own line, labor plus materials.

| | Item | Your price |
|---|---|---|
| 1 | **TVs** Hang 4 TVs, two outlets behind each | $ |
| 2 | **Speakers** 6 speakers, wire back to the desk | $ |
| 3 | **Cameras** 6 cameras, one Cat6 each back to the desk | $ |
| 4 | **Light relays** Your electrician: 4 Shelly relays in the contactor box | $ |
| 5 | **Thermostat gateways** Your HVAC guy: fit and pair 2 gateways | $ |
| 6 | **Floor drain** Your plumber: a drain where the toilet was | $ |

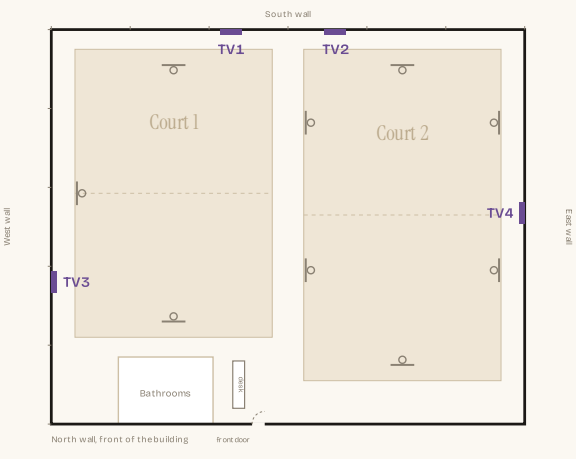
## Where everything goes

TVs Speakers Cameras



# 1 TVs

The part we most want your crew to do.




## What we give you



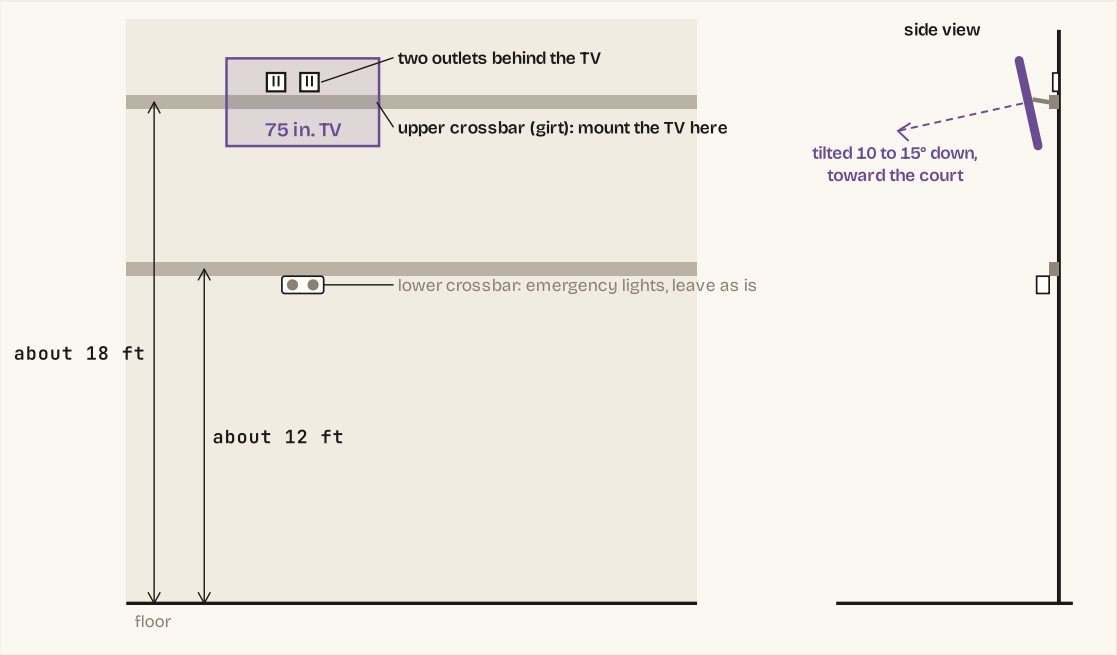

**Hisense 75E7SF TV**
4



**Peerless PT660 tilt mount**
4




**Fire TV Stick**
4, set up on each TV before it goes up



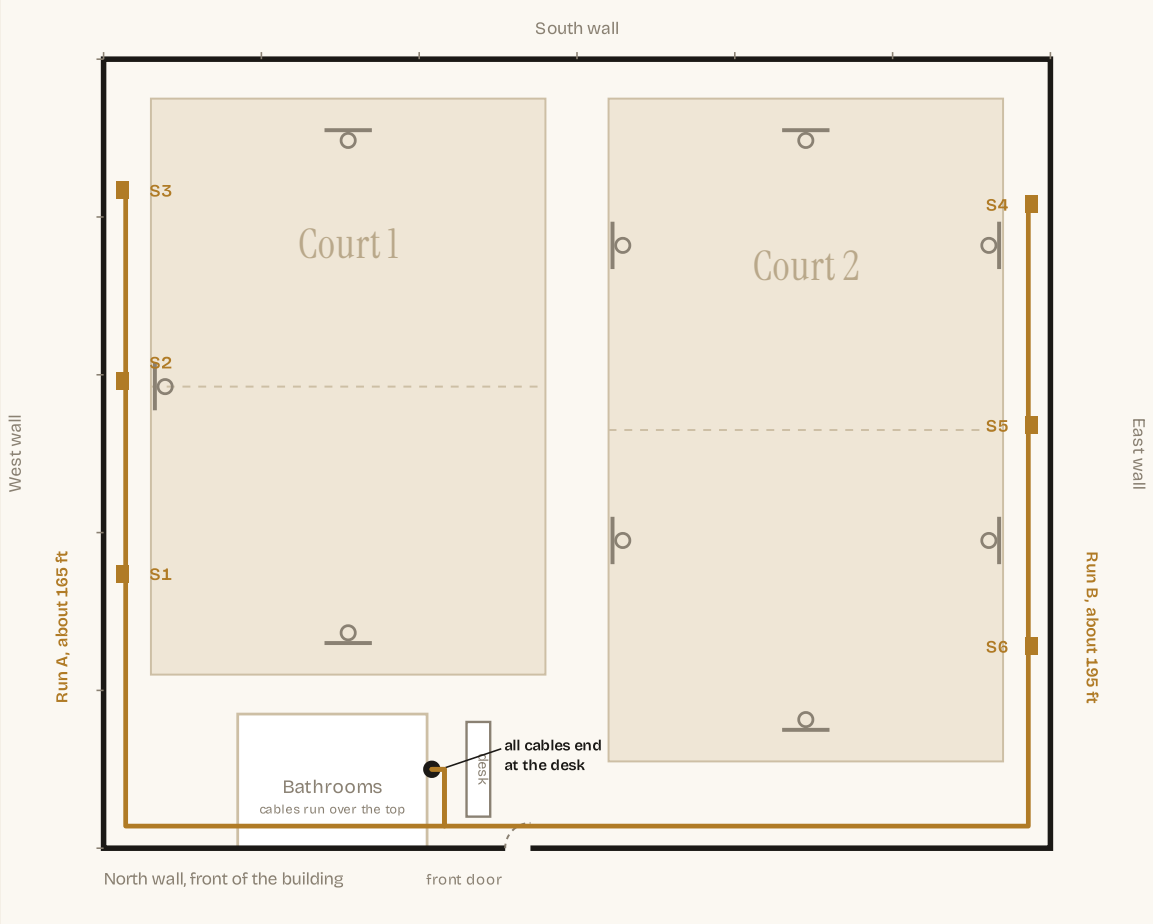

**The job.** Hang four 75 in. TVs on tilt mounts, with two outlets behind each.

**Done when**

- ☐ Each TV hangs on the upper steel crossbar (girt), about 18 ft up, level, tilted 10 to 15° down toward the court.
- ☐ The emergency lights on the crossbar below, at about 12 ft, are untouched.
- ☐ Two live outlets behind each TV, and the TV turns on. No cords showing.

| | |
|---|---|
| **Part** | Hisense 75E7SF, 75 in., on a Peerless PT660 tilt mount. Four of each. |
| **Setup** | We set up and test each TV and its streaming stick on the ground first, so it goes up ready. |
| **Where** | TV1 and TV2 on the south wall, TV3 on the west wall, TV4 on the east wall. |
| **Data** | None: the TVs use Wi-Fi. |

# 2 Speakers




### What we give you



**Yamaha VXS5 speaker**
6, wall bracket in the box




**16/2 speaker wire**
500 ft box



**Speaker plate**
1, see page 7

**The job.** Hang six speakers and run their wire back to the desk.

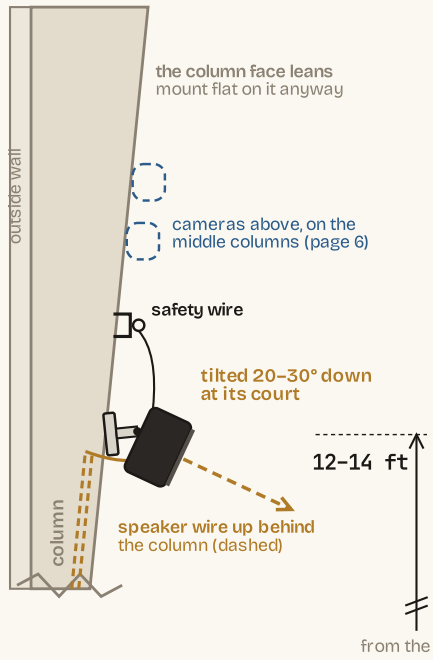
### Done when

- [ ] Each speaker is on its wall column at 12 to 14 ft, aimed at the middle of its court, with a safety cable, and set to 70 V, 30 W.
- [ ] Run A (west wall, about 165 ft) and Run B (east wall, about 195 ft) each loop through their three speakers, on their own hooks, never with the Cat6.
- [ ] Both runs end on the speaker plate at the desk, labeled Run A and Run B (page 7).

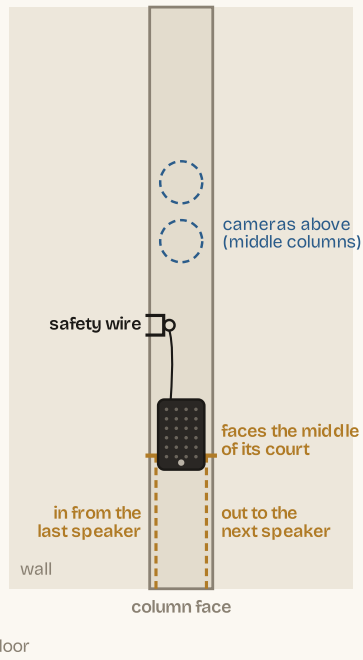
| | |
|---|---|
| **Part** | Yamaha VXS5 speakers, six, bracket in the box. 16/2 speaker wire. |
| **Power** | None at the speakers: they run on the speaker wire alone. Our amp at the desk powers them. |
| **Mounting** | Yamaha's bracket, flat on the column. See the next page. |

# How each speaker hangs

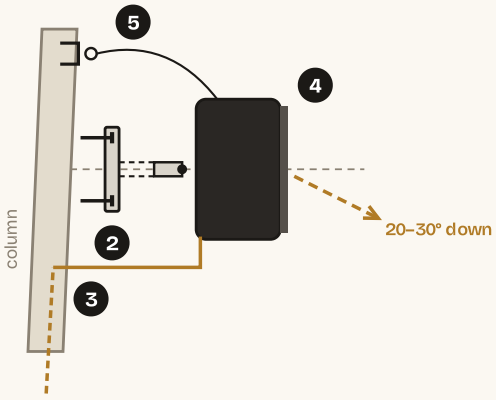
**From the side**



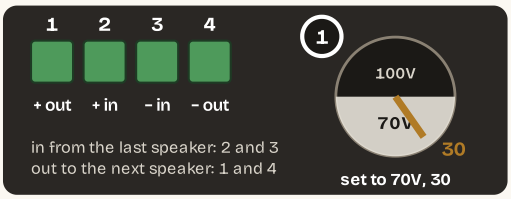

**From the court**




**Close up**




**Back of the speaker**




1. Turn the dial on the back to 70V, 30.
2. Fasten Yamaha's bracket base flat to the column, at all four corners.
3. Run the wire up behind the column, out only at the speaker: in on 2 and 3, out to the next on 1 and 4.
4. Hang it on its bracket, put in the safety pin, tilt it 20–30° down at its court, and tighten.
5. Clip Yamaha's safety wire to an eye bolt in a small beam clamp above.

## What we give you



**Yamaha VXS5 speaker**
6, bracket in the box



**Back of the speaker**
the dial and terminals 1–4

**The job.** Hang each speaker on Yamaha's own bracket, flat on its column. Nothing else to buy for the bracket.

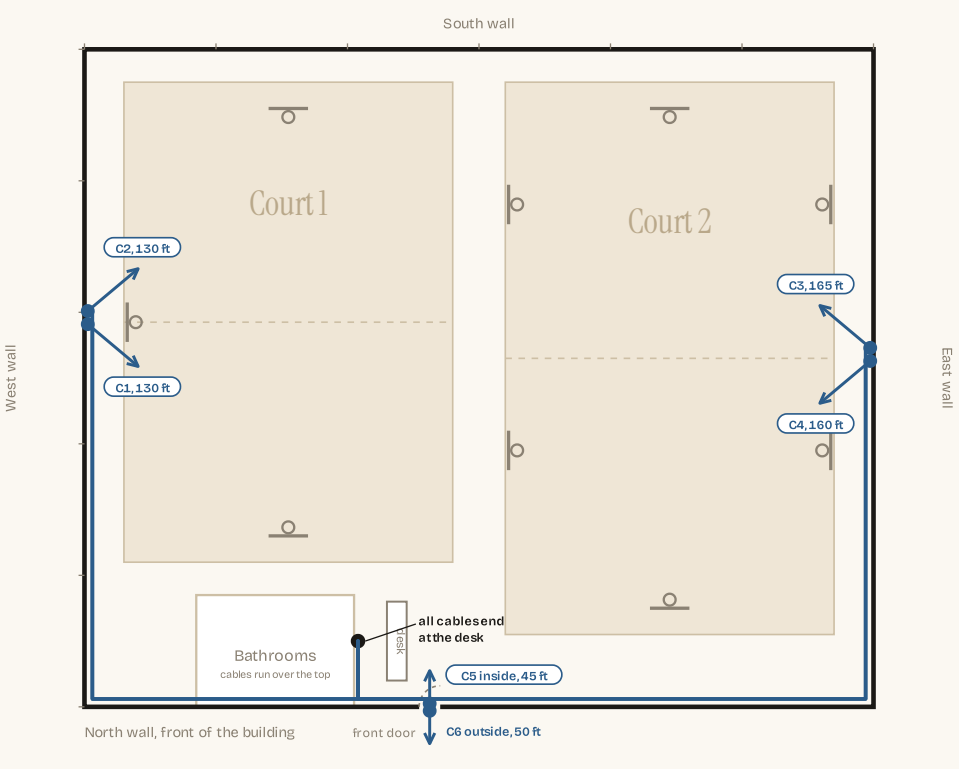
## Done when

- [ ] Each speaker at 12 to 14 ft, dial at 70V, 30, facing the middle of its court, tilted 20–30° down, safety pin and wire on.
- [ ] Its wire stays behind the column until the speaker. S3 and S4, the last on each run, have nothing on 1 and 4.

**Fixing** Tell us how you would fix the bracket bases to the steel.

**We supply** A small beam clamp and eye bolt per speaker, for the safety wire.

# 3 Cameras



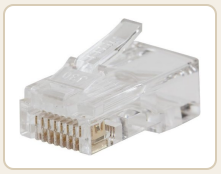

## What we give you



**Reolink RLC-840A camera**
6




**Cat6, solid copper**
1,000 ft box



**RJ45 plugs, camera end**
Klein pass-through: needs a pass-through crimper



**Camera plate and jacks**
see page 7

**The job.** Mount six cameras and run one Cat6 from each back to the desk.

**Done when**

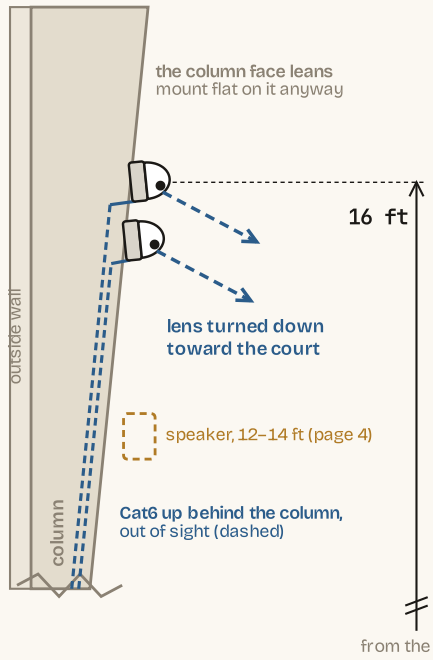
- [ ] C1 to C4 in pairs on the middle column of each side wall, top one at 16 ft, each looking out over its half of the court as the arrows show.
- [ ] C5 inside over the front door, looking in, and C6 outside over it, looking out, both at 10 ft. C6 sealed against the weather.
- [ ] Each Cat6 runs unbroken (no splices) to its jack, C1 to C6, on the camera plate at the desk (page 7), and passes a cable test. About 680 ft in all.

**Power** None at the cameras: power comes over the Cat6 from our recorder.

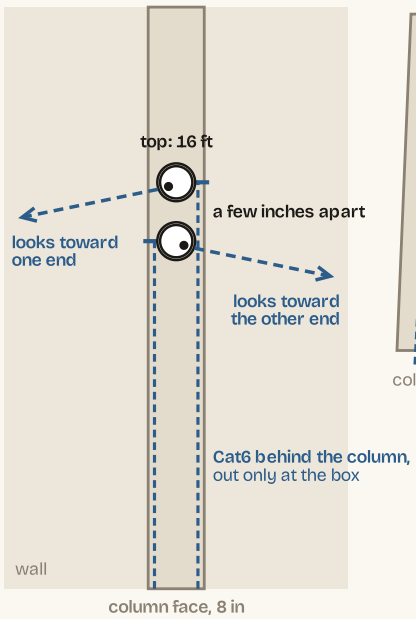
**Mounting** Flat on the column, on a Reolink box. See the next page.

# How each camera mounts

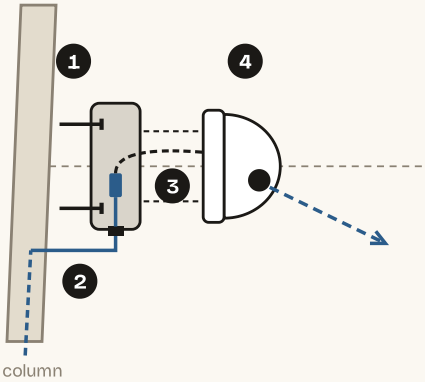
**From the side**




**From the court**




**Each camera, close up**




1. Screw the Reolink box flat to the column face.
2. Run the Cat6 up behind the column. It comes out only at the box, into its sealed side entry.
3. Plug it into the camera's short cable. The joint stays inside the box.
4. Screw the camera to the box using the holes marked B, then turn the lens to look down the court.

### What we give you



**Reolink RLC-840A camera**
6



**Reolink junction box RLA-JBL1**
6, one behind each camera

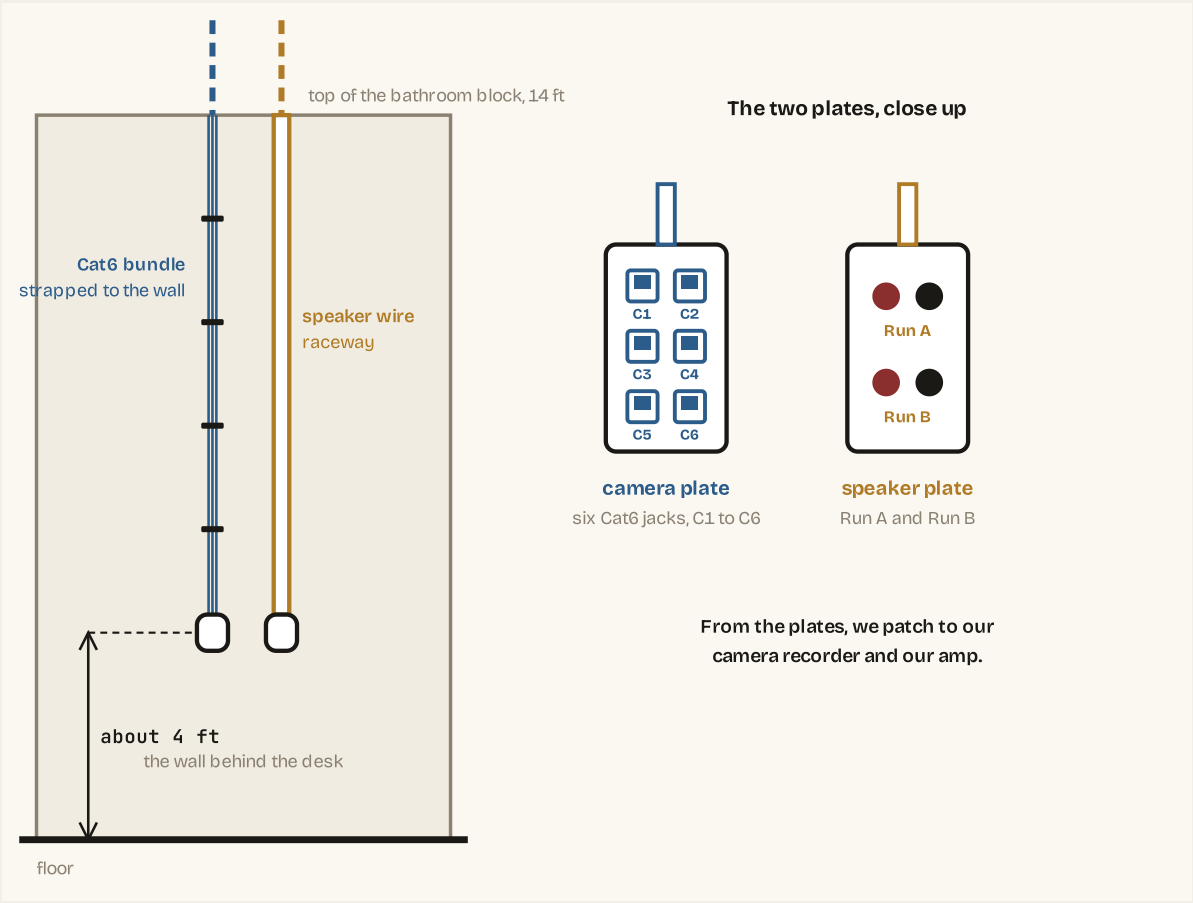
**The job.** Mount each camera flat on its own Reolink box: no arm for a ball to catch.

### Done when

- [ ] On each middle column: the top camera at 16 ft and the second a few inches below it (about 3 in between the boxes), each looking toward its own end of the court (page 5). Stacked, not side by side: the column face is 8 in and each box is 5.4 in across.
- [ ] Over the front door: C5 inside and C6 outside at 10 ft, mounted the same way on the wall. C6's Cat6 comes through the wall into the back of its box, sealed.
- [ ] Each Cat6 runs up behind the column, out of sight, and comes out only at its camera's box.
- [ ] Fit one camera first. We check its picture with you before the other five go up.

**Fixing** Tell us how you would fix the boxes to the steel.

# Where the speaker and camera cables end




## What we give you



**Camera plate**
6 ports, one gang



**Cat6 keystone jacks**
6 used, punch-down



**Surface box**
2, one behind each plate



**Speaker plate**
2 pairs of binding posts




**Speaker-wire raceway**
2 kits, about 19 ft

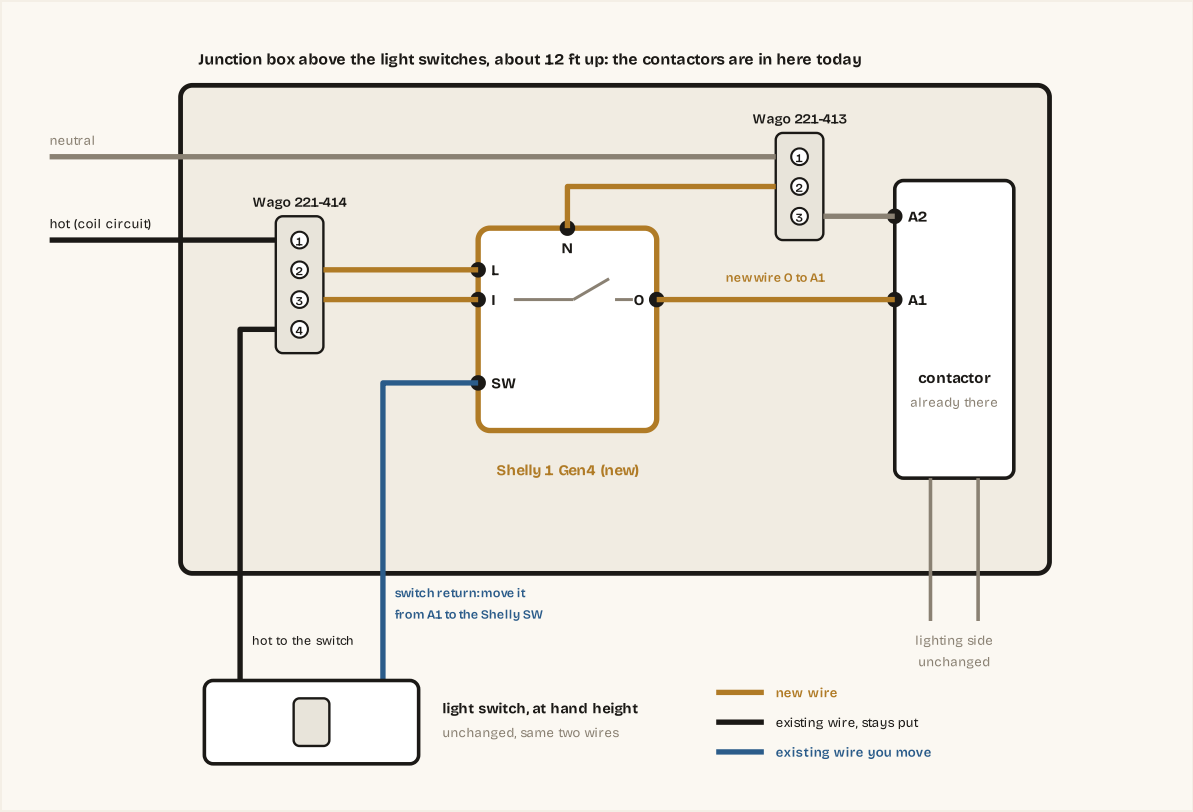
**The job.** Bring every speaker and camera cable down the wall behind the desk and end it on a wall plate.

### Done when

- [ ] The Cat6 comes down the wall from the top of the bathroom block as one neat bundle, strapped to the wall. The speaker wire comes down beside it in its own raceway.
- [ ] Camera plate: six Cat6 jacks punched down T568B, labeled C1 to C6, about 4 ft up.
- [ ] Speaker plate beside it: Run A and Run B on binding posts, labeled.
- [ ] We patch from the plates to our recorder and amp. Nothing else at the desk is yours to do.

# 4 Light relays

While your electrician is in there.




## What we give you



**Shelly 1 Gen4 UL relay**
4

**The job.** Fit four Shelly smart relays in the contactor box, one per light switch, so the lights follow our booking schedule.

### Done when

- [ ] Each relay is wired as drawn: the switch return moves from the contactor coil to the relay, and a new wire runs from the relay to the coil.
- [ ] Every light switch still turns its lights on and off.
- [ ] Nothing changes at the switches or on the lighting side. Cover back on.

| | |
|---|---|
| **Part** | Shelly 1 Gen4 UL smart relay, four. |
| **Where** | Inside the junction box above the light switches, about 12 ft up the wall, where the contactors are today. |
| **Check** | Each relay needs a neutral. It switches the coil up to 240 V: if the coils are 277 V, tell us. |
| **After** | We set the relays up on our Wi-Fi. |

## 5 Thermostat gateways

**What we give you**



**Honeywell RedLINK gateway**
2, with power cords

**The job.** For your HVAC guy: fit two thermostat gateways near the desk and pair them to the six court thermostats.

**Done when**

- [ ] Both gateways powered and online.
- [ ] All six thermostats show in Total Connect Comfort under our account.

| | |
|---|---|
| **Part** | Honeywell RedLINK Internet Gateway THM6000R7001, two. |
| **Needs** | An outlet and a network cable for each. We have the network cables. |

## 6 Floor drain

**The job.** For your plumber: add a floor drain where the toilet was.

**Done when**

- [ ] Drain in, and the floor around it patched flush.

| | |
|---|---|
| **When** | It will not hold up opening. |