



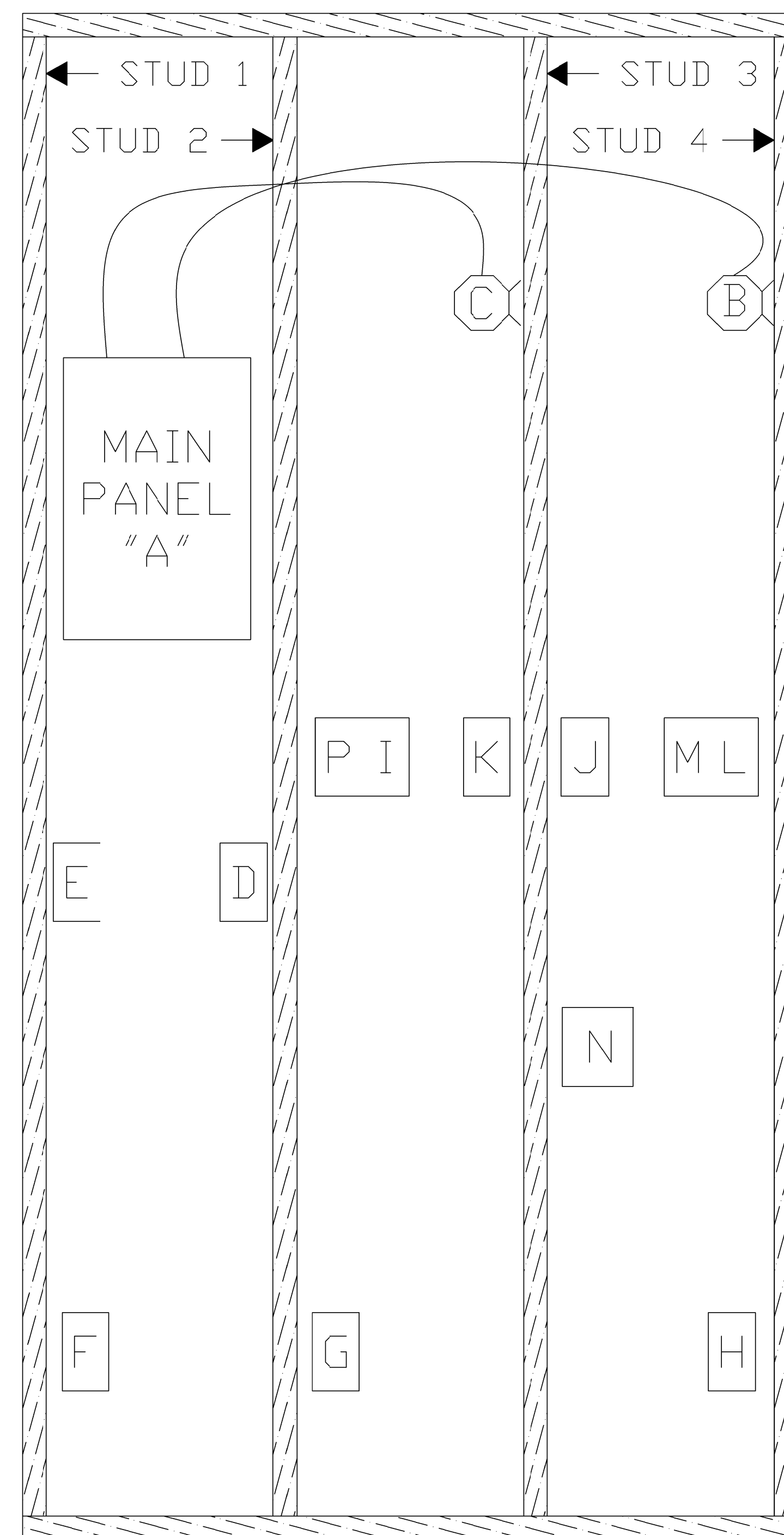
VIRGINIA STATE SKILLS U.S.A CHAMPIONSHIP 2025

PROUDLY SPONSORED BY **THE ELECTRICAL TRAINING ALLIANCE**
A Powerful Advantage



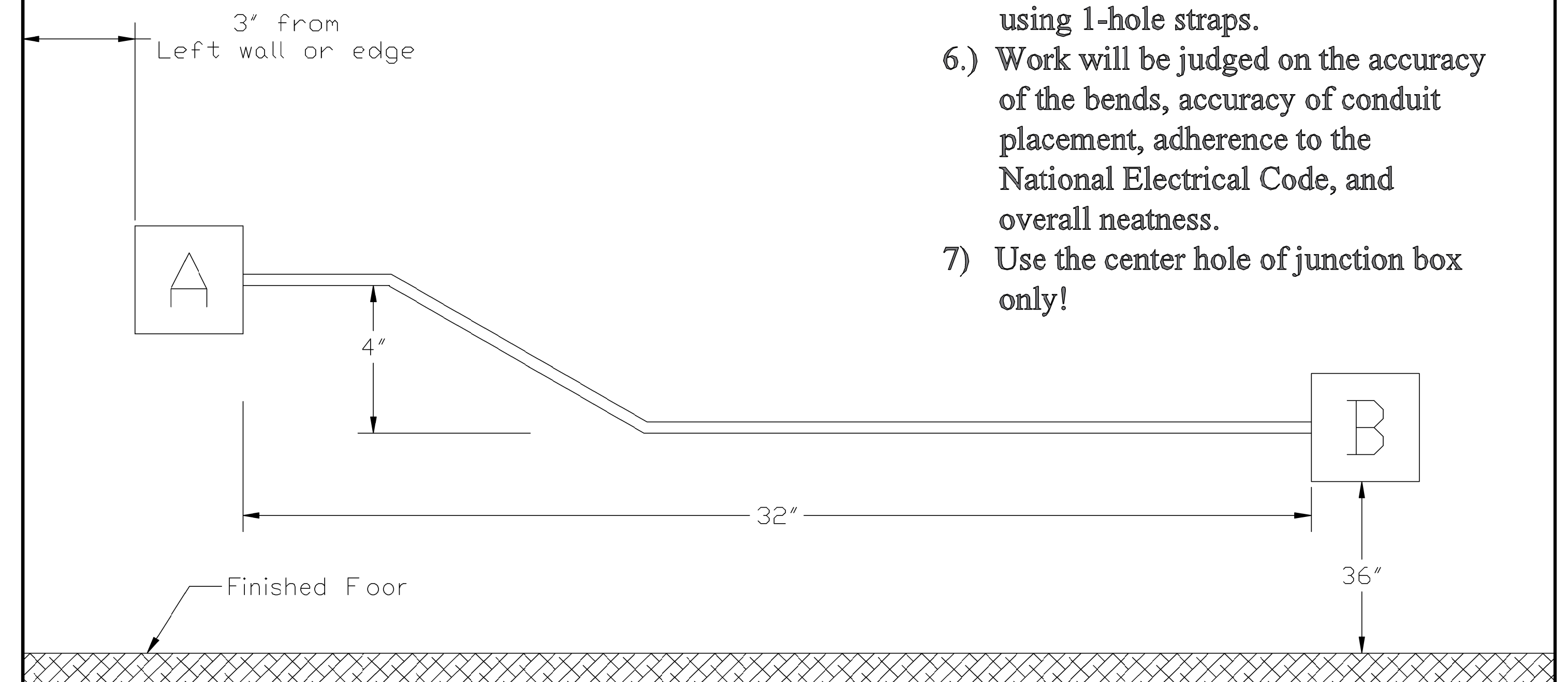
Procedures - Part 1 :

- 1.) Install Panel "A" at 52" to the bottom of panel using screws, centered between studs 1 and 2.
- 2.) Light fixture boxes at 80" on center with box "B" mounted on stud 4 and box "C" mounted on stud 3.
- 3.) All switch boxes mounted at 50" to center using plastic boxes.
- 4.) Small appliance receptacle boxes "D" and "E" mount at 36" to center using plastic boxes on studs 1 and 2.
- 5.) Wire receptacles "D" and "E" as a kitchen counter circuit with "D" as a GFCI receptacle and "E" as GFCI protected.
- 6.) Receptacles "F", "G", and "H" mount 12" to center using plastic boxes on studs 1, 2, and 4 (see drawing).
- 7.) Switches "I", "J", and "K" control light "B" with the feed at the light. These switches should be mounted on studs 2, 3, and 4 (see drawing).
- 8.) Switch "L" controls light "C" with the feed at the light. Mount box for switches "M" and "L" on stud 4.
- 9.) Switch "M" and switch "P" controls the top half of receptacles "F" and "G" simultaneously with the bottom half energized all the time.
- 10.) Receptacle "H" is an un-switched receptacle .
- 11.) Receptacles "F", "G", and "H" are on the same circuit as light "C".
- 12.) Receptacle box "N", a 2 gang plastic box mounted 30" to center, is for a NEMA 14-30R flush mounted dryer receptacle.
- 13.) All wiring is to be done using type "NM" cable.
- 14.) All measurements are from the finished floor.
- 15.) Battery drills may be used.
- 16.) Work will be judged primarily on accuracy, adherence to the National Electrical Code, safety, and overall neatness.



Procedures - Part 2 :

- 1.) Complete pipe bending project using $\frac{1}{2}$ " EMT.
- 2.) Boxes "A" & "B" are to be mounted using screws.
- 3.) The conduit shall be fabricated as shown on the drawing.
- 4.) Box offsets are required.
- 5.) The pipe shall be securely fastened using 1-hole straps.
- 6.) Work will be judged on the accuracy of the bends, accuracy of conduit placement, adherence to the National Electrical Code, and overall neatness.
- 7.) Use the center hole of junction box only!



2025 ELECTRICAL WIRING COMPETITION SPECIFICATIONS

- 1.) All work shall conform to the 2023 National Electrical Code and shall be installed in a neat and workmanlike manner.
- 2.) Proper safety equipment has been supplied. You shall utilize this equipment while performing your work.
- 3.) All studded walls will finish with $\frac{1}{2}$ " drywall.
- 4.) All boxes shall be plastic boxes unless otherwise noted.
- 5.) All materials and equipment have been provided and each individual should make their own decisions for their installations.
- 6.) All measurements for box installations shall be to the center of the boxes.
- 7.) All devices are to be side wired only.
- 8.) Leave all devices in positions to be screwed to boxes for judges to inspect. Do not attach devices or fixtures to the outlet boxes and do not wrap tape on devices.
- 9.) Upon completion of the project, notify one of the judges and remain at your work station.

WORK SAFELY !!!