### 2ai: Formal, Concise, Step-by-step List

1. **Plan Summary**
   * **h1:** Executes Electrical Installation (t2\_ip2, t2\_ip1) at Room H (l8), then moves to Room D (l4) for Plumbing Installation (t3\_bza), moves to Room E (l5), and performs Plumbing Installation (t3\_bzb).
   * **r1:** Moves to Room F (l6) and performs Foundation preparation (t1\_msa).
   * **r2:** Moves to Room G (l7) to execute Foundation preparation (t1\_msb).
   * **r3:** Completes Finishing work (t4\_se1) at Room J (l10), then transits to Room I (l9) for Finishing work (t4\_wcp1).
2. **Pareto Front Explanation**
   * The Pareto front defines the optimal set of non-dominated solutions, representing the peak trade-off between maximizing the overall mission success probability and minimizing the total mission cost.
3. **Optimal Solution Details (Minimum Probability ≥0.90)**
   * **QoS:** Probability of Success: **0.904**; Cost: **$48.101**.
   * **Trade-off:** Minimal cost solution satisfying the 0.90 probability requirement. All h1 tasks are limited to **one retry**. Robot r3's t4\_se1 is assigned **five retries** and Robot r2's t1\_msb is assigned **four retries** to guarantee reliability.