



This electrical schematic diagram illustrates the wiring and control logic for a cage unloading system. The diagram is organized into several functional sections:

- Power Sources:** On the left, there is a 'FUSE & RELAY BOX' containing a main fuse and a relay section with contacts labeled A through R. Two power inputs, 'MAIN POWER' and 'FAN POWER', enter the system.
- Relay Control:** A large section in the center-left contains a grid of relays. The columns are labeled with numbers 1 through 16. The rows are labeled with letters A through R. Specific relay configurations include:
 - Row A: Relays 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A, 11A, 12A, 13A, 14A, 15A, 16A.
 - Row B: Relays 1B, 2B, 3B, 4B, 5B, 6B, 7B, 8B, 9B, 10B, 11B, 12B, 13B, 14B, 15B, 16B.
 - Row C: Relays 1C, 2C, 3C, 4C, 5C, 6C, 7C, 8C, 9C, 10C, 11C, 12C, 13C, 14C, 15C, 16C.
 - Row D: Relays 1D, 2D, 3D, 4D, 5D, 6D, 7D, 8D, 9D, 10D, 11D, 12D, 13D, 14D, 15D, 16D.
- Smart Relay Box:** A central component labeled 'SMART RELAY FOR UNLOADING SYSTEM (091-21967)' contains a 4x4 grid of relays. The columns are labeled 1 through 4, and the rows are labeled 1 through 4. Each relay is labeled with a four-digit number, such as 1111, 1112, etc.
- Control Logic:** The relay grid is interconnected with various logic gates (AND, OR, NOT) and timers to create complex control sequences. The logic is organized into several parallel paths, each corresponding to a specific function or sequence of operations.
- Output Section:** On the right side, there are two main output sections. The top section is labeled 'PARKING POSITION' and the bottom section is labeled 'PARKING POSITION'. Each section contains a series of contacts and logic blocks that interface with the external world.
- Annotations and Notes:**
 - WIRE SIZES:** The notes indicate 'NOTE: USE 14GA WIRES FOR #1,2,12,13,14,32,33 & MAIN POWER' and 'NOTE: USE 16GA WIRES FOR #3-11,18-31'.
 - DATE:** The date '02/05/2016' is stamped on the drawing.
 - REFERENCES:** A table lists references to 'EQUIPMENT' (F. ROUX), 'SCALES' (NITS), and 'POLES'.
 - Signatures:** There are several handwritten signatures and initials across the drawing, including 'Coop' in the top right corner.