**TYPICAL LAYOUT**

**VIEW X**

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NAMES:
1. Insulated rail joints: Bonded section to be of sufficient length to hold cars connected to points for loading or unloading only. Insulated joints at location "B" not required if station is located at end of spur track. Cars applied for loading or unloading must not bridge insulated rail joints or be coupled to cars outside of the insulated track section at any time during loading or unloading operations. Insulated parts to be of approved type. Paint all insulated joints with yellow paint.
2. Install mid span "A" for each 100 foot section. Use connector, item 7, and bond strand, item 11.
3. Make up rail bonds to suit length of rail joint bars using item 7 and bond strand, item 11.
4. Each loading rail pipe to be connected to rails using clamp, item 5, bond strand, item 11, and connector, item 7.
5. Details, if required, to be located back of insulated points.
6. Electrical tests must be made at time of installation in accordance with CS 27, test 27.
7. No connections or bonding using any welding process will be permitted due to fire hazard.

**ITEM** | **NAME** | **REV** | **REF** | **ACCT NO**
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1 | Pipe clamp | 405-1 | | |
2 | Rod, copper clad ground, 5/16 diam | 02-829263 | | |
3 | Rod, copper clad ground, threaded | 02-829313 | | |
4 | Clamp, copper clad ground | 49-212664 | | |
5 | Connector, Burndy type K523 | 49-256602 | | |
6 | Staple, insulated | 02-549010 | | |
7 | Connector | 9050-1 | 02-150603 | |
8 | Bolt, NE 1/4-5/8-11-9 3/16 stainless steel | | | |
9 | Nut, hex 5/8-11 NC stainless steel | | | |
10 | Washer, plain 5/8 medium brass | | | |
11 | Strand, bond, black insulation | 02-555856 | | |

**SHEET 1 CONRAIL CS-405-A**

**STANDARD BONDING OIL SIDINGS DETAILS AND INSTRUCTIONS JULY 3, 1983 Approved by Chief Engineer CS & REV. 8-6-97**

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