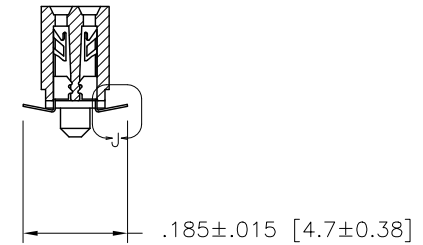
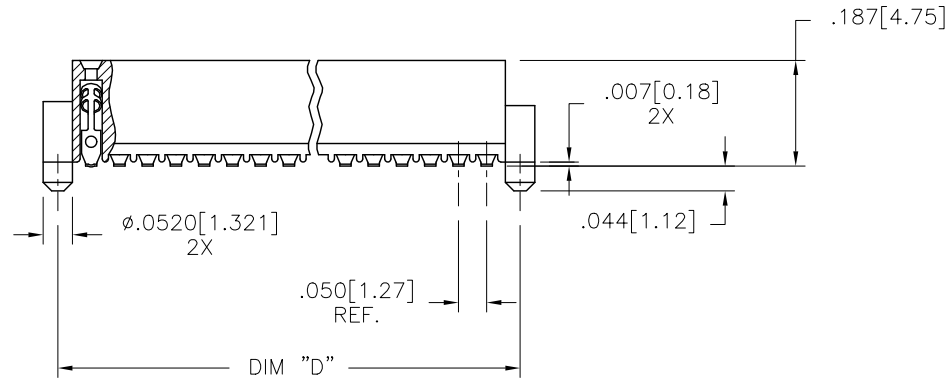
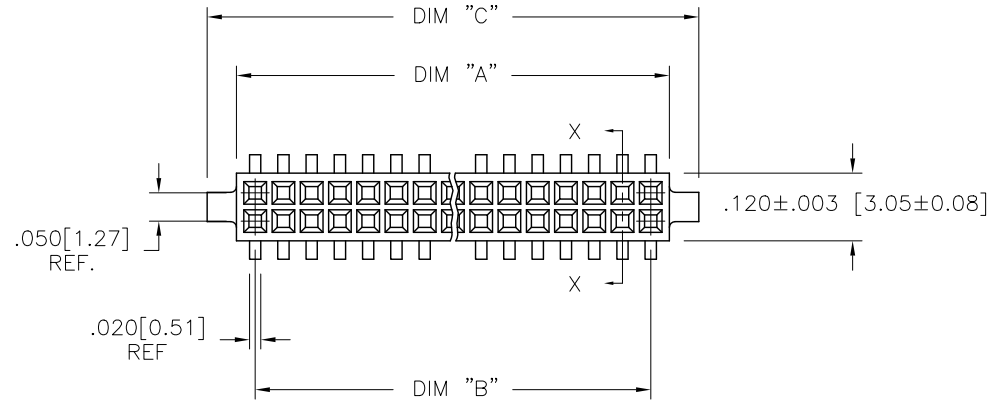


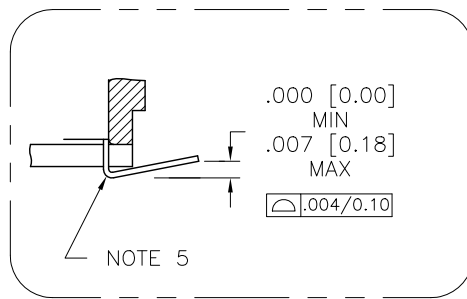


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PRODUCT NUMBER  
SEE TABLE

SECTION X-X

DETAIL J  
SCALE 10/1

|                  |              |          |         |                                       |              |                                  |    |                                                                                                     |                            |                                                      |              |          |
|------------------|--------------|----------|---------|---------------------------------------|--------------|----------------------------------|----|-----------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------|--------------|----------|
| mat'l. code<br>— |              |          |         | surface<br>ISO 1302 ✓                 |              | tolerance<br>ISO 406<br>ISO 1101 |    | projection<br> | product family<br>RIB CAGE |                                                      |              |          |
| ltr              | ecn no       | dr       | date    | tolerances unless otherwise specified |              |                                  |    |                                                                                                     | INCH/MM<br><br>scale 3:1   | title                                                |              |          |
| AC               | M05-0084     | MHT      | 5/05/05 | angles                                | linear       | xx ±.01/.3                       |    |                                                                                                     |                            | .050cc VERT. CARD CONN.<br>SURF. MT. W/LOC. FEATURES |              |          |
| AD               | M06-0284     | AEA      | 7/27/06 |                                       |              | xxx ±.005/.13                    |    |                                                                                                     |                            |                                                      |              |          |
| AE               | M07-0267     | MHT      | 6/08/07 | 0±2°                                  |              | xxxx ±.0020/.050                 |    |                                                                                                     |                            |                                                      |              |          |
| AF               | M07-0345     | AGS      | 7/26/07 | dr                                    | M. CLOUSER   | 5/25/91                          |    |                | dwg no                     |                                                      | sheet 1 of 4 | size     |
| AG               | M09-0345     | CMR      | 4/06/09 | engr                                  | B. BARUFFALO | 5/25/91                          |    |                                                                                                     | 87023                      |                                                      | A3           |          |
| AH               | N10-0174     | YO       | 6/17/10 | chr                                   | B. BARUFFALO | 5/25/91                          |    |                                                                                                     |                            |                                                      |              |          |
| AJ               | ELX-N-010201 | YO       | 2/8/12  | appd                                  | B. BARUFFALO | 5/25/91                          |    |                                                                                                     | type                       |                                                      | Product      | Customer |
| sheet            |              | revision |         | AJ                                    | AJ           | AJ                               | AJ |                                                                                                     |                            |                                                      |              |          |
| index            |              | sheet    |         | 1                                     | 2            | 3                                | 4  |                                                                                                     |                            |                                                      |              |          |

PDS: Rev :AJ

STATUS: Released

Printed: Sep 11, 2013

PRODUCT NO.  
87023 - XXX

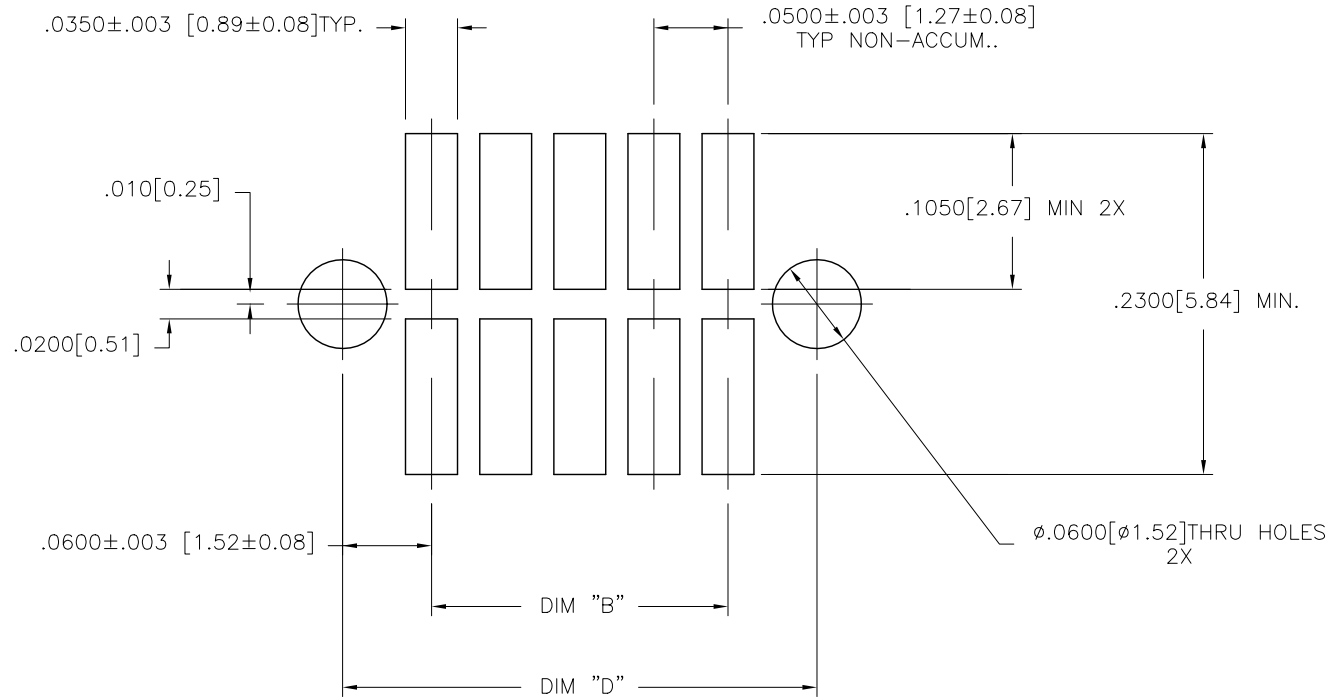
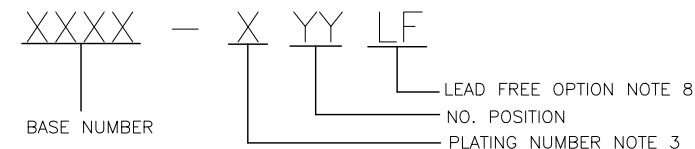


FIGURE A  
RECOMMENDED  
P.C.B. LAYOUT

|                  |     |          |    |                  |                                       |         |                                  |                                                                                       |                                                                                                     |  |                                                                                                                                  |       |  |  |  |  |  |  |  |
|------------------|-----|----------|----|------------------|---------------------------------------|---------|----------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|-------|--|--|--|--|--|--|--|
| mat'l. code<br>— |     |          |    |                  | surface<br>ISO 1302 ✓                 |         | tolerance<br>ISO 406<br>ISO 1101 |                                                                                       | projection<br> |  | product family<br>RIB CAGE                                                                                                       |       |  |  |  |  |  |  |  |
| ltr              | ecn | no       | dr | date             | tolerances unless otherwise specified |         |                                  |                                                                                       |                                                                                                     |  |                                                                                                                                  | title |  |  |  |  |  |  |  |
| AJ               |     |          |    |                  | angles                                | linear  | XX ±.01/.3                       |                                                                                       |                |  | .050cc VERT. CARD CONN.<br>SURF. MT. W/LOC. FEATURES                                                                             |       |  |  |  |  |  |  |  |
|                  |     |          |    | XXX ±.005/.13    |                                       |         |                                  |                                                                                       |                                                                                                     |  |                                                                                                                                  |       |  |  |  |  |  |  |  |
|                  |     |          |    | XXXX ±.0020/.050 |                                       |         |                                  |                                                                                       |                                                                                                     |  |                                                                                                                                  |       |  |  |  |  |  |  |  |
|                  |     |          |    |                  | 0°±2°                                 |         |                                  |                                                                                       | scale 3:1                                                                                           |  | <div>dwg no</div> <div>sheet2 of 4</div> <div>size</div> <div>87023</div> <div>A3</div> <div>type Product Customer Drawing</div> |       |  |  |  |  |  |  |  |
|                  |     |          |    | dr               | M. CLOUSER                            | 5/25/91 |                                  |  |                                                                                                     |  |                                                                                                                                  |       |  |  |  |  |  |  |  |
|                  |     |          |    | engr             | B. BARUFFALO                          | 5/25/91 |                                  |                                                                                       |                                                                                                     |  |                                                                                                                                  |       |  |  |  |  |  |  |  |
|                  |     |          |    | chr              | B. BARUFFALO                          | 5/25/91 |                                  |                                                                                       |                                                                                                     |  |                                                                                                                                  |       |  |  |  |  |  |  |  |
|                  |     |          |    | appd             | B. BARUFFALO                          | 5/25/91 |                                  |                                                                                       |                                                                                                     |  |                                                                                                                                  |       |  |  |  |  |  |  |  |
| sheet index      |     | revision |    | sheet            |                                       |         |                                  |                                                                                       |                                                                                                     |  |                                                                                                                                  |       |  |  |  |  |  |  |  |

| PRODUCT NO.<br>NOTE 8 | SIZE   | DIM A        | DIM B       | DIM C        | DIM D         | SPECIAL<br>PACKAGING | TAPE<br>WIDTH<br>PITCH | PIECES<br>PER REEL |
|-----------------------|--------|--------------|-------------|--------------|---------------|----------------------|------------------------|--------------------|
| 87023-605             | 2 X 5  | .266/6.756   | .200/5.08   | .370/9.398   | .3200/8.128   | NOTE 6               | 24mm 12mm              | 750                |
| -610                  | 2 X 10 | .516/13.106  | .450/11.43  | .620/15.748  | .5700/14.478  | NOTE 6               | 24mm 12mm              | 750                |
| -615                  | 2 X 15 | .766/19.456  | .700/17.78  | .870/22.098  | .8200/20.828  | NOTE 6               | 44mm 12mm              | 500                |
| -620                  | 2 X 20 | 1.016/25.806 | .950/24.13  | 1.120/28.448 | 1.0700/27.178 | NOTE 6 & 7           | 44mm 12mm              | 500                |
| -625                  | 2 X 25 | 1.266/32.156 | 1.200/30.48 | 1.370/34.798 | 1.3200/33.528 | NOTE 6               | 56mm 12mm              | 500                |
| -630                  | 2 X 30 | 1.516/38.506 | 1.450/36.83 | 1.620/41.148 | 1.5700/39.878 | NOTE 6 & 7           | 56mm 12mm              | 500                |
| -635                  | 2 X 35 | 1.766/44.856 | 1.700/43.18 | 1.870/47.498 | 1.8200/46.228 | NOTE 6               | 72mm 12mm              | 500                |
| -640                  | 2 X 40 | 2.016/51.206 | 1.950/49.53 | 2.120/53.848 | 2.0700/52.578 | NOTE 6 & 7           | 72mm 12mm              | 500                |
| -645                  | 2 X 45 | 2.266/57.556 | 2.200/55.88 | 2.370/60.198 | 2.3200/58.928 | NOTE 6               | 72mm 12mm              | 500                |
| -650                  | 2 X 50 | 2.516/63.906 | 2.450/62.23 | 2.620/66.548 | 2.5700/65.278 | NOTE 6               | 88mm 12mm              | 500                |
| -905                  | 2 X 5  | .266/6.756   | .200/5.08   | .370/9.398   | .3200/8.128   | NO                   | —                      | —                  |
| -910                  | 2 X 10 | .516/13.106  | .450/11.43  | .620/15.748  | .5700/14.478  | NO                   | —                      | —                  |
| -915                  | 2 X 15 | .766/19.456  | .700/17.78  | .870/22.098  | .8200/20.828  | NO                   | —                      | —                  |
| -920                  | 2 X 20 | 1.016/25.806 | .950/24.13  | 1.120/28.448 | 1.0700/27.178 | NO                   | —                      | —                  |
| -925                  | 2 X 25 | 1.266/32.156 | 1.200/30.48 | 1.370/34.798 | 1.3200/33.528 | NO                   | —                      | —                  |
| -930                  | 2 X 30 | 1.516/38.506 | 1.450/36.83 | 1.620/41.148 | 1.5700/39.878 | NO                   | —                      | —                  |
| -935                  | 2 X 35 | 1.766/44.856 | 1.700/43.18 | 1.870/47.498 | 1.8200/46.228 | NO                   | —                      | —                  |
| -940                  | 2 X 40 | 2.016/51.206 | 1.950/49.53 | 2.120/53.848 | 2.0700/52.578 | NO                   | —                      | —                  |
| -945                  | 2 X 45 | 2.266/57.556 | 2.200/55.88 | 2.370/60.198 | 2.3200/58.928 | NO                   | —                      | —                  |
| 87023-950             | 2 X 50 | 2.516/63.906 | 2.450/62.23 | 2.620/66.548 | 2.5700/65.278 | NO                   | —                      | —                  |



## NOTES:

- HOUSING MATERIAL:  
GLASS FILLED THERMOPLASTIC FLAME RETARDANT PER UL 94V-0  
COLOR: NATURAL
- TERMINAL MATERIAL: BeCu
- TERMINAL PLATING:  
-6XXLF: 30u"/.76um MIN HARD GOLD OR GXT OVER Ni ON CONTACT ZONES.  
100u"/2.54um MIN PURE TIN OVER Ni  
IN SOLDERING ZONES, OTHERWISE GOLD FLASH OR UNPLATED.  
-9XXLF: 60u"/1.52um MIN HARD GOLD ON CONTACT ZONES,  
100u"/2.54um MIN PURE TIN OVER Ni  
OVER Ni IN SOLDERING ZONES, OTHERWISE GOLD FLASH OR UNPLATED.
- APPLICATION INFORMATION:
  - RECOMMENDED MOUNTING PAD PATTERN IS SHOWN IN FIGURE "A".
  - MATING PINS TO BE .0176/0.447 TO .0181/0.459 DIA.
  - MATING PIN TIPS TO BE IN TRUE POSITION TO MATING GRID WITHIN .006/0.15 DIA.
  - SUGGESTED MATING PIN LENGTH .130/3.30 ±.010/0.25.

- LEAD TIPS TO BE ABOVE HEEL, UP TO .007/0.18 MAX.  
COPLANARITY TO BE MEASURED AT LOWEST POINT (HEEL).
- ADD "TR" TO END OF DASH NUMBER FOR TAPE AND REEL  
PACKAGED WITH CAP. TOOLED ONLY FOR NOTED CONNECTORS.
- ADD "CT" TO END OF DASH NUMBER FOR CONNECTOR WITH  
CAP FOR VACUUM PICKUP IN TUBE.
- ADD LF SUFFIX AT THE END OF PART NUMBER  
FOR LEAD FREE OPTION.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE  
FOR 20 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW  
OVEN. SEE APPLICATION NOTE/PROCEDURES IF THEY ARE AVAILABLE.
- THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER  
COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
- PRODUCT SPEC PER BUS-12-087.

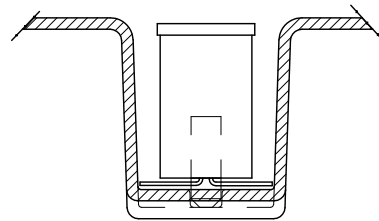
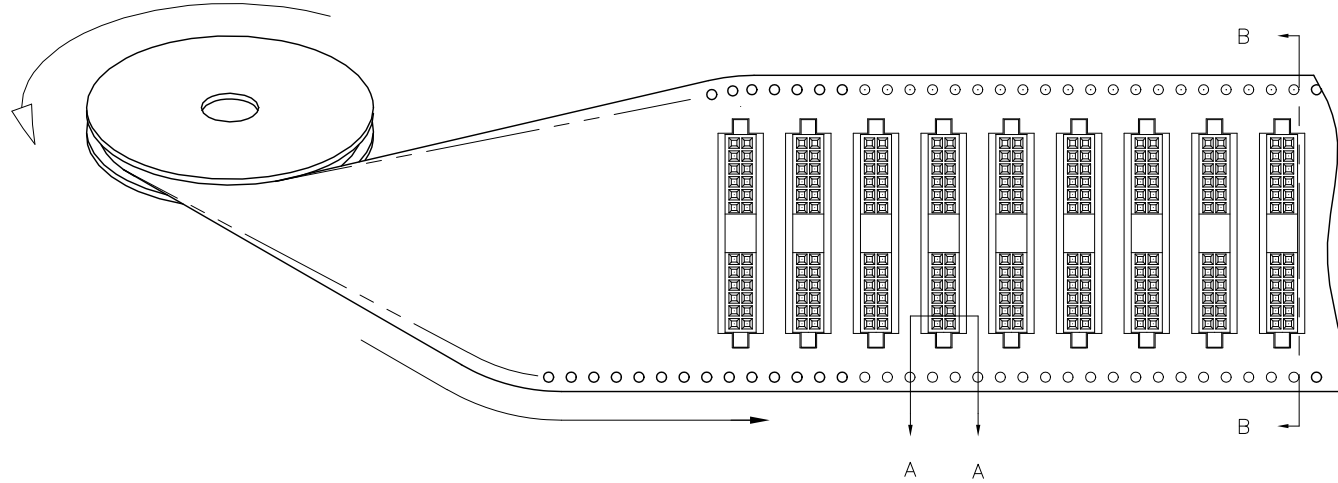
|             |     |            |    |                     |                                       |                      |           |                               |  |
|-------------|-----|------------|----|---------------------|---------------------------------------|----------------------|-----------|-------------------------------|--|
| mat'l. code |     | surface    |    | tolerance           |                                       | projection           |           | product family                |  |
| —           |     | ISO 1302 ✓ |    | ISO 406<br>ISO 1101 |                                       | ⊕                    |           | RIB CAGE                      |  |
| ltr         | ecn | no         | dr | date                | tolerances unless otherwise specified |                      | title     |                               |  |
| AJ          |     |            |    |                     | angles                                | linear               | INCH/MM   | .050cc VERT. CARD CONN.       |  |
|             |     |            |    |                     | σ±2'                                  | xxx ±.005/.13        | scale 3:1 | SURF. MT. W/LOC. FEATURES     |  |
|             |     |            |    |                     | dr                                    | M. CLOUSER 5/25/91   |           | dwg no                        |  |
|             |     |            |    |                     | enrg                                  | B. BARUFFALO 5/25/91 |           | sheet 3 of 4                  |  |
|             |     |            |    |                     | chr                                   | B. BARUFFALO 5/25/91 |           | size                          |  |
|             |     |            |    |                     | appd                                  | B. BARUFFALO 5/25/91 |           | A3                            |  |
| sheet       |     | revision   |    |                     |                                       |                      |           | type Product Customer Drawing |  |
| index       |     | sheet      |    |                     |                                       |                      |           |                               |  |

PRODUCT NUMBER  
SEE TABLE

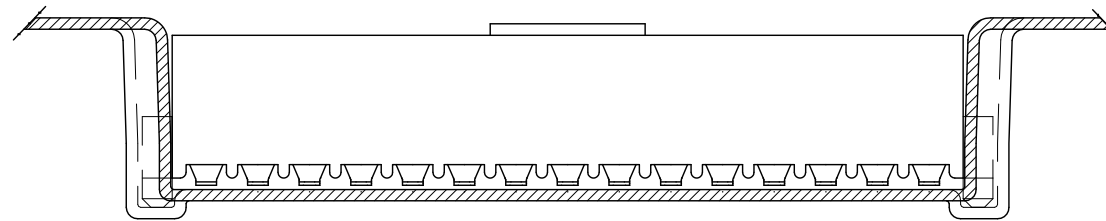
REFERENCE ONLY

TAPE WIDTH'S 32mm AND ABOVE HAS BOTH FEED TRACKS,  
BELOW 32mm HAS TOP FEED TRACK ONLY.

UNREELING  
DIRECTION



SECTION A-A



SECTION B-B

|                  |     |                |    |                       |              |                                  |                                                                                       |                                                                                                     |                                                                                       |                            |        |  |  |  |
|------------------|-----|----------------|----|-----------------------|--------------|----------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------|--------|--|--|--|
| mat'l. code<br>— |     |                |    | surface<br>ISO 1302 ✓ |              | tolerance<br>ISO 406<br>ISO 1101 |                                                                                       | projection<br> |                                                                                       | product family<br>RIB CAGE |        |  |  |  |
| ltr              | ecn | no             | dr | date                  |              |                                  | tolerances unless otherwise specified                                                 |                                                                                                     |                                                                                       | title                      |        |  |  |  |
| AJ               |     |                |    | angles                |              | linear                           | XX ±.01/.3                                                                            |                                                                                                     |  | .050cc VERT. CARD CONN.    |        |  |  |  |
|                  |     |                |    |                       |              |                                  | XXX ±.005/.13                                                                         |                                                                                                     |                                                                                       | SURF. MT. W/LOC. FEATURES  |        |  |  |  |
|                  |     |                |    | 0'±2'                 |              |                                  | XXXX ±.0020/.050                                                                      |                                                                                                     | scale 3:1                                                                             |                            | dwg no |  |  |  |
|                  |     |                |    | dr                    | M. CLOUSER   | 5/25/91                          |  |                                                                                                     | sheet 4 of 4                                                                          |                            | size   |  |  |  |
|                  |     |                |    | engr                  | B. BARUFFALO | 5/25/91                          |                                                                                       |                                                                                                     | 87023                                                                                 |                            | A3     |  |  |  |
|                  |     |                |    | chr                   | B. BARUFFALO | 5/25/91                          |                                                                                       |                                                                                                     |                                                                                       |                            |        |  |  |  |
|                  |     |                |    | appd                  | B. BARUFFALO | 5/25/91                          |                                                                                       |                                                                                                     |                                                                                       |                            |        |  |  |  |
| sheet index      |     | revision sheet |    |                       |              |                                  |                                                                                       |                                                                                                     |                                                                                       |                            |        |  |  |  |

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