

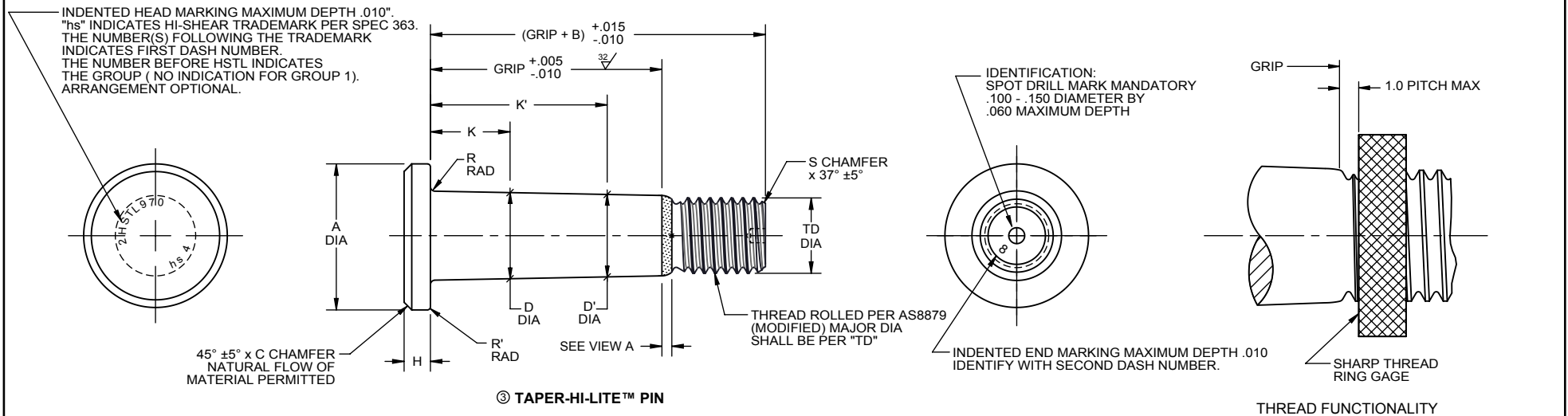
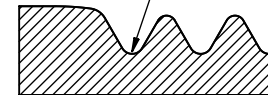


TABLE 1 1

| FIRST<br>DASH<br>NO. | PIN<br>NOM<br>DIA | GROUP<br>NO. | A<br>DIA |       | B<br>(REF) | C<br>MAX | H            | K<br>+.040<br>-.000 | R<br>RAD<br>+.010<br>-.000 | R'<br>RAD<br>+.010<br>-.000 | S<br>MAX | X    | Y     | Z    | THREAD              | TD<br>DIA      | DOUBLE<br>SHEAR<br>POUNDS<br>MINIMUM | TENSION<br>POUNDS<br>MINIMUM | TENSION-<br>TENSION<br>FATIGUE<br>LBS. MAX. |
|----------------------|-------------------|--------------|----------|-------|------------|----------|--------------|---------------------|----------------------------|-----------------------------|----------|------|-------|------|---------------------|----------------|--------------------------------------|------------------------------|---------------------------------------------|
|                      |                   |              | MAX      | MIN   |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
| 3                    | 3/16              | 1            | .312     | .302  | .290       | .020     | .074<br>.064 | .0355               | .015                       | .010                        | .027     | .006 | .0045 | .008 | .1900-32<br>UNJF-3A | .1840<br>.1810 | 5,380                                | 3,200                        | 1,050                                       |
|                      |                   | 2            | .323     | .312  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
|                      |                   | 3            | .339     | .328  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
| 4                    | 1/4               | 1            | .379     | .369  | .320       | .031     | .090<br>.077 | .0355               | .015                       | .010                        | .031     | .010 | .0045 | .010 | .2500-28<br>UNJF-3A | .2440<br>.2410 | 9,300                                | 5,830                        | 1,950                                       |
|                      |                   | 2            | .403     | .392  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
|                      |                   | 3            | .421     | .411  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
| 5                    | 5/16              | 1            | .487     | .475  | .380       | .031     | .112<br>.098 | .0375               | .020                       | .015                        | .035     | .012 | .0045 | .012 | .3125-24<br>UNJF-3A | .3060<br>.3020 | 14,600                               | 9,200                        | 3,140                                       |
|                      |                   | 2            | .502     | .490  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
|                      |                   | 3            | .524     | .512  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
| 6                    | 3/8               | 1            | .581     | .567  | .420       | .041     | .140<br>.130 | .0405               | .020                       | .020                        | .035     | .014 | .0060 | .014 | .3750-24<br>UNJF-3A | .3680<br>.3640 | 21,000                               | 14,000                       | 4,850                                       |
|                      |                   | 2            | .596     | .582  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
|                      |                   | 3            | .619     | .605  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
| 7                    | 7/16              | 1            | .685     | .669  | .485       | .047     | .160<br>.150 | .0455               | .030                       | .020                        | .040     | .016 | .0060 | .016 | .4375-20<br>UNJF-3A | .4310<br>.4260 | 28,600                               | 17,700                       | 6,115                                       |
|                      |                   | 2            | .703     | .687  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
|                      |                   | 3            | .730     | .714  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
| 8                    | 1/2               | 1            | .826     | .755  | .525       | .047     | .188<br>.178 | .0455               | .030                       | .020                        | .040     | .016 | .0060 | .016 | .5000-20<br>UNJF-3A | .4930<br>.4880 | 37,300                               | 24,000                       | 8,340                                       |
|                      |                   | 2            | .767     | .751  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
|                      |                   | 3            | .788     | .772  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
| 9                    | 9/16              | 1            | .818     | .802  | .600       | .060     | .210<br>.200 | .1925               | .063                       | .030                        | .045     | .018 | .0060 | .018 | .5625-18<br>UNJF-3A | .5550<br>.5500 | 47,200                               | 28,400                       | 9,890                                       |
|                      |                   | 2            | .885     | .869  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
|                      |                   | 3            | .915     | .899  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
| 10                   | 5/8               | 1            | .945     | .929  | .640       | .060     | .238<br>.228 | .1925               | .063                       | .030                        | .045     | .018 | .0060 | .018 | .6250-18<br>UNJF-3A | .6180<br>.6120 | 58,300                               | 38,400                       | 13,465                                      |
|                      |                   | 2            | 1.011    | .995  |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
|                      |                   | 3            | 1.044    | 1.028 |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
| 12                   | 3/4               | 1            | 1.077    | 1.061 | .895       | .070     | .335<br>.320 | .2550               | .063                       | .030                        | .045     | .020 | .0060 | .020 | .7500-16<br>UNJF-3A | .7430<br>.7370 | 83,900                               | 55,600                       | 19,400                                      |
|                      |                   | 2            | 1.133    | 1.117 |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
|                      |                   | 3            | 1.171    | 1.155 |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
|                      |                   | 1            | 1.209    | 1.193 |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
|                      |                   | 2            | -        | -     |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |
|                      |                   | 3            | -        | -     |            |          |              |                     |                            |                             |          |      |       |      |                     |                |                                      |                              |                                             |

THIS AREA OF SPECIAL CONFIGURATION  
 AND COLD WORKING TO MEET PHYSICAL  
 REQUIREMENTS



VIEW A  
 HI-LITE™ THREAD TRANSITION AREA  
 SEE SPECIFICATION FOR INSPECTION

|                                                                       |                                     |                                                                                                        |        |
|-----------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------|--------|
| ③ "TAPER-HI-LITE", AND "HI-KOTE",<br>ARE TRADEMARKS OF LISI AEROSPACE |                                     |                                                                                                        |        |
| DRAWN BY<br>J.F. OBISPO                                               | DATE<br>2009-11-05                  | ③ TITLE<br>TAPER-HI-LITE™ PIN<br>PROTRUDING SHEAR HEAD<br>TAPER SHANK, TITANIUM<br>1/16 GRIP VARIATION |        |
| APPROVED<br>J. HAYES                                                  | DATE<br>2009-11-05                  |                                                                                                        |        |
| REVISION<br>③                                                         | DATE<br>F. CARINGELLA<br>2019-05-30 | DRAWING NUMBER<br><b>HSTL970</b>                                                                       | 1 OF 6 |

TABLE 1 (CONTINUED)

1

| FIRST<br>DASH<br>NO. | PIN<br>NOM<br>DIA | GROUP<br>NO. | A<br>DIA |       | B<br>(REF) | C<br>MAX | H            | K<br>+.040<br>-.000 | R<br>RAD<br>+.010<br>-.000 | R'<br>RAD<br>+.010<br>-.000 | S<br>MAX | X    | Y     | Z    | THREAD               | TD<br>DIA      | DOUBLE<br>SHEAR<br>POUNDS<br>MINIMUM | TENSION<br>POUNDS<br>MINIMUM | TENSION-<br>TENSION<br>FATIGUE<br>LBS. MAX. |
|----------------------|-------------------|--------------|----------|-------|------------|----------|--------------|---------------------|----------------------------|-----------------------------|----------|------|-------|------|----------------------|----------------|--------------------------------------|------------------------------|---------------------------------------------|
|                      |                   |              | MAX      | MIN   |            |          |              |                     |                            |                             |          |      |       |      |                      |                |                                      |                              |                                             |
| 14                   | 7/8               | 1            | 1.258    | 1.242 | 1.000      | .080     | .399<br>.383 | .2550               | .063                       | .040                        | .050     | .020 | .0080 | .020 | .8750-14<br>UNJF-3A  | .8680<br>.8610 | 107,050                              | 67,900                       | 25,185                                      |
|                      |                   | 2            | 1.304    | 1.288 |            |          |              |                     |                            |                             |          |      |       |      |                      |                |                                      |                              |                                             |
|                      |                   | 3            | 1.350    | 1.334 |            |          |              |                     |                            |                             |          |      |       |      |                      |                |                                      |                              |                                             |
|                      |                   | -            | -        | -     |            |          |              |                     |                            |                             |          |      |       |      |                      |                |                                      |                              |                                             |
| 16                   | 1                 | 1            | 1.445    | 1.429 | 1.160      | .090     | .450<br>.434 | .2550               | .063                       | .040                        | .057     | .020 | .0080 | .020 | 1.0000-12<br>UNJF-3A | .9930<br>.9860 | 140,050                              | 88,575                       | 31,915                                      |
|                      |                   | 2            | 1.496    | 1.480 |            |          |              |                     |                            |                             |          |      |       |      |                      |                |                                      |                              |                                             |
|                      |                   | 3            | 1.547    | 1.531 |            |          |              |                     |                            |                             |          |      |       |      |                      |                |                                      |                              |                                             |
|                      |                   | -            | -        | -     |            |          |              |                     |                            |                             |          |      |       |      |                      |                |                                      |                              |                                             |

- GENERAL NOTES:**
- Head edge out of roundness shall not exceed "Z".
  - Concentricity: "A" diameter and thread pitch diameter within "X" values FIM.  
Taper shank at "K" and thread pitch diameter to be within "Y" values FIM.
  - Dimensions are in inches and to be met after finish and prior to application of lubricant.
  - Surface texture per ASME B46.1.
  - Top of head to be flat to .003 max convex. Concave condition not allowed.
  - Use HSTL971 for oversize replacement.
  - After February, 21st of 2015, HI-KOTE™ 1 aluminum pigmented coating per Hi-Shear Spec. 294 will be replaced by REACH compliant HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on fasteners coated in European Union.

**MATERIAL:** 6Al-4V titanium alloy per AMS4928 or AMS4967.

**HEAT TREAT:** 160,000 psi tensile minimum (95,000 psi shear minimum) for sizes up to 3/4.  
150,000 psi tensile minimum (90,000 psi shear minimum) for sizes up to 7/8 and larger.

**FINISH:** 7 HSTL970KM( )-( ) = HI-KOTE™ 1 aluminum pigmented coating per Hi-Shear Spec. 294, with color code white on the thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.

**SPECIFICATION:** HI-LITE™ Product Specification 414. ③

**CODE:** First dash number indicates nominal diameter in 1/16ths.  
Second dash number indicates maximum grip in 1/16ths.  
See Finish note for explanation of code letters.

**HOW TO ORDER  
EXAMPLE:**

Pin Part Number  
 HSTL970KM4-8  
 — 8/16 or 1/2 Maximum Grip Length  
 — 1/4 Nominal Diameter Pin  
 — Finish Code  
 — Pin Basic Part Number

HSTL970

DRAWING NUMBER

**HSTL970**

2 OF 6

TABLE 2

| SECOND<br>DASH<br>NO. | 3/16"    |                      |           |              | 1/4"     |                      |           |              | 5/16"    |                      |           |              | 3/8"     |                      |           |              | 7/16"    |                      |           |              | SECOND<br>DASH<br>NO. |
|-----------------------|----------|----------------------|-----------|--------------|----------|----------------------|-----------|--------------|----------|----------------------|-----------|--------------|----------|----------------------|-----------|--------------|----------|----------------------|-----------|--------------|-----------------------|
|                       | D<br>DIA | K'<br>+.040<br>-.000 | D'<br>DIA | GROUP<br>NO. | D<br>DIA | K'<br>+.040<br>-.000 | D'<br>DIA | GROUP<br>NO. | D<br>DIA | K'<br>+.040<br>-.000 | D'<br>DIA | GROUP<br>NO. | D<br>DIA | K'<br>+.040<br>-.000 | D'<br>DIA | GROUP<br>NO. | D<br>DIA | K'<br>+.040<br>-.000 | D'<br>DIA | GROUP<br>NO. |                       |
| 1                     |          | -                    | -         |              |          | -                    | -         |              |          | -                    | -         |              |          | -                    | -         |              |          | -                    | -         |              | 1                     |
| 2                     |          | -                    | -         |              |          | -                    | -         |              |          | -                    | -         |              |          | -                    | -         |              |          | -                    | -         |              | 2                     |
| 3                     |          | .1300                | .1988     |              |          | .1300                | .2614     |              |          | .1300                | .3255     |              |          | -                    | -         |              |          | -                    | -         |              | 3                     |
| 4                     |          | .1925                | .1976     |              |          | .1925                | .2602     |              |          | .1925                | .3240     |              |          | .1925                | .3882     |              |          | -                    | -         |              | 4                     |
| 5                     | .2012    | .2551                | .1966     | 1            | .2638    | .2551                | .2591     | 1            | .3272    | .2551                | .3228     | 1            | .3913    | .2551                | .3866     | 1            | .4563    | .2551                | .4520     | 1            | 5                     |
| 6                     |          | .3173                | .1953     |              |          | .3173                | .2580     |              |          | .3173                | .3216     |              |          | .3173                | .3854     |              |          | .3173                | .4508     |              | 6                     |
| 7                     |          | .3800                | .1937     |              |          | .3800                | .2563     |              |          | .3800                | .3200     |              |          | .3800                | .3842     |              |          | .3800                | .4492     |              | 7                     |
| 8                     |          | .4425                | .1925     |              |          | .4425                | .2551     |              |          | .4425                | .3189     |              |          | .4425                | .3826     |              |          | .4425                | .4480     |              | 8                     |
| 9                     |          | .5051                | .2016     |              |          | .5051                | .2540     |              |          | .5051                | .3177     |              |          | .5051                | .3815     |              |          | .5051                | .4468     |              | 9                     |
| 10                    |          | .5673                | .2004     |              |          | .5673                | .2524     |              |          | .5673                | .3161     |              |          | .5673                | .3803     |              |          | .5673                | .4453     |              | 10                    |
| 11                    |          | .6300                | .1988     |              |          | .6300                | .2642     |              |          | .6300                | .3150     |              |          | .6300                | .3787     |              |          | .6300                | .4441     |              | 11                    |
| 12                    |          | .6925                | .1976     |              |          | .6925                | .2630     |              |          | .6925                | .3280     |              |          | .6925                | .3775     |              |          | .6925                | .4430     |              | 12                    |
| 13                    | .2114    | .7551                | .1965     | 2            |          | .7551                | .2614     |              |          | .7551                | .3267     |              |          | .7551                | .3917     |              |          | .7551                | .4413     |              | 13                    |
| 14                    |          | .8173                | .1953     |              |          | .8173                | .2602     |              |          | .8173                | .3255     |              |          | .8173                | .3905     |              |          | .8173                | .4401     |              | 14                    |
| 15                    |          | .8800                | .1937     |              |          | .8800                | .2591     |              |          | .8800                | .3240     |              |          | .8800                | .3893     |              |          | .8800                | .4571     |              | 15                    |
| 16                    |          | .9425                | .1925     |              | .2768    | .9425                | .2580     | 2            | .3417    | .9425                | .3228     | 2            | .4067    | .9425                | .3882     | 2            |          | .9425                | .4560     |              | 16                    |
| 17                    |          | 1.0051               | .2016     |              |          | 1.0051               | .2563     |              |          | 1.0051               | .3216     |              |          | 1.0051               | .3866     |              |          | 1.0051               | .4543     |              | 17                    |
| 18                    |          | 1.0673               | .2004     |              |          | 1.0673               | .2551     |              |          | 1.0673               | .3200     |              |          | 1.0673               | .3854     |              |          | 1.0673               | .4531     |              | 18                    |
| 19                    |          | 1.1300               | .1988     |              |          | 1.1300               | .2540     |              |          | 1.1300               | .3189     |              |          | 1.1300               | .3842     |              |          | 1.1300               | .4520     |              | 19                    |
| 20                    |          | 1.1925               | .1976     |              |          | 1.1925               | .2524     |              |          | 1.1925               | .3177     |              |          | 1.1925               | .3826     |              |          | 1.1925               | .4508     |              | 20                    |
| 21                    | .2217    | 1.2551               | .1965     | 3            |          | 1.2551               | .2642     |              |          | 1.2551               | .3161     |              |          | 1.2551               | .3815     |              | .4744    | 1.2551               | .4492     | 2            | 21                    |
| 22                    |          | 1.3173               | .1953     |              |          | 1.3173               | .2630     |              |          | 1.3173               | .3150     |              |          | 1.3173               | .3803     |              |          | 1.3173               | .4480     |              | 22                    |
| 23                    |          | 1.3800               | .1937     |              |          | 1.3800               | .2614     |              |          | 1.3800               | .3250     |              |          | 1.3800               | .3787     |              |          | 1.3800               | .4468     |              | 23                    |
| 24                    |          | 1.4425               | .1925     |              |          | 1.4425               | .2602     |              |          | 1.4425               | .3228     |              |          | 1.4425               | .3775     |              |          | 1.4425               | .4453     |              | 24                    |
| 25                    |          |                      |           |              | .2898    | 1.5051               | .2591     | 3            |          | 1.5051               | .3255     |              |          | 1.5051               | .3917     |              |          | 1.5051               | .4441     |              | 25                    |
| 26                    |          |                      |           |              |          | 1.5673               | .2580     |              |          | 1.5673               | .3240     |              |          | 1.5673               | .3905     |              |          | 1.5673               | .4430     |              | 26                    |
| 27                    |          |                      |           |              |          | 1.6300               | .2563     |              |          | 1.6300               | .3228     |              |          | 1.6300               | .3893     |              |          | 1.6300               | .4413     |              | 27                    |
| 28                    |          |                      |           |              |          | 1.6925               | .2551     |              | .3560    | 1.6925               | .3216     | 3            | .4224    | 1.6925               | .3882     | 3            |          | 1.6925               | .4401     |              | 28                    |
| 29                    |          |                      |           |              |          | 1.7551               | .2540     |              |          | 1.7551               | .3200     |              |          | 1.7551               | .3866     |              |          | 1.7551               | .4571     |              | 29                    |
| 30                    |          |                      |           |              |          | 1.8173               | .2524     |              |          | 1.8173               | .3189     |              |          | 1.8173               | .3854     |              |          | 1.8173               | .4560     |              | 30                    |
| 31                    |          |                      |           |              |          |                      |           |              |          | 1.8800               | .3177     |              |          | 1.8800               | .3842     |              |          | 1.8800               | .4543     |              | 31                    |
| 32                    |          |                      |           |              |          |                      |           |              |          | 1.9425               | .3161     |              |          | 1.9425               | .3826     |              |          | 1.9425               | .4531     |              | 32                    |
| 33                    |          |                      |           |              |          |                      |           |              |          | 2.0051               | .3150     |              |          | 2.0051               | .3815     |              |          | 2.0051               | .4520     |              | 33                    |
| 34                    |          |                      |           |              |          |                      |           |              |          |                      |           |              |          | 2.0673               | .3803     |              |          | 2.0673               | .4508     |              | 34                    |
| 35                    |          |                      |           |              |          |                      |           |              |          |                      |           |              |          | 2.1300               | .3787     |              | .4925    | 2.1300               | .4492     | 3            | 35                    |
| 36                    |          |                      |           |              |          |                      |           |              |          |                      |           |              |          | 2.1925               | .3775     |              |          | 2.1925               | .4480     |              | 36                    |
| 37                    |          |                      |           |              |          |                      |           |              |          |                      |           |              |          |                      |           |              |          | 2.2551               | .4468     |              | 37                    |
| 38                    |          |                      |           |              |          |                      |           |              |          |                      |           |              |          |                      |           |              |          | 2.3173               | .4453     |              | 38                    |
| 39                    |          |                      |           |              |          |                      |           |              |          |                      |           |              |          |                      |           |              |          | 2.3800               | .4441     |              | 39                    |
| 40                    |          |                      |           |              |          |                      |           |              |          |                      |           |              |          |                      |           |              |          | 2.4425               | .4430     |              | 40                    |
| 41                    |          |                      |           |              |          |                      |           |              |          |                      |           |              |          |                      |           |              |          | 2.5051               | .4413     |              | 41                    |
| 42                    |          |                      |           |              |          |                      |           |              |          |                      |           |              |          |                      |           |              |          | 2.5673               | .4402     |              | 42                    |

HSTL970

DRAWING NUMBER

**HSTL970**

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TABLE 2 (CONTINUED)

| SECOND<br>DASH<br>NO. | 1/2"     |                      |           |   | GROUP<br>NO. | 9/16"    |                      |           |   | GROUP<br>NO. |
|-----------------------|----------|----------------------|-----------|---|--------------|----------|----------------------|-----------|---|--------------|
|                       | D<br>DIA | K'<br>+.040<br>-.000 | D'<br>DIA |   |              | D<br>DIA | K'<br>+.040<br>-.000 | D'<br>DIA |   |              |
| 5                     |          | .2551                | .5169     |   |              |          | -                    | -         |   |              |
| 6                     |          | .3173                | .5157     |   |              |          | .3173                | .5889     |   |              |
| 7                     |          | .3800                | .5142     |   |              |          | .3800                | .5878     |   |              |
| 8                     |          | .4425                | .5130     |   |              |          | .4425                | .5866     |   |              |
| 9                     |          | .5051                | .5118     |   |              |          | .5051                | .5850     |   |              |
| 10                    | .5213    | .5673                | .5102     | 1 | .5917        |          | .5673                | .5838     | 1 |              |
| 11                    |          | .6300                | .5090     |   |              |          | .6300                | .5826     |   |              |
| 12                    |          | .6925                | .5079     |   |              |          | .6925                | .5815     |   |              |
| 13                    |          | .7551                | .5067     |   |              |          | .7551                | .5799     |   |              |
| 14                    |          | .8173                | .5051     |   |              |          | .8173                | .5787     |   |              |
| 15                    |          | .8800                | .5039     |   |              |          | .8800                | .5775     |   |              |
| 16                    |          | .9425                | .5027     |   |              |          | .9425                | .5760     |   |              |
| 17                    |          | 1.0051               | .5220     |   |              |          | 1.0051               | .5748     |   |              |
| 18                    |          | 1.0673               | .5209     |   |              |          | 1.0673               | .5736     |   |              |
| 19                    |          | 1.1300               | .5197     |   |              |          | 1.1300               | .5720     |   |              |
| 20                    |          | 1.1925               | .5181     |   |              |          | 1.1925               | .5708     |   |              |
| 21                    |          | 1.2551               | .5169     |   |              |          | 1.2551               | .5697     |   |              |
| 22                    |          | 1.3173               | .5157     |   |              |          | 1.3173               | .5681     |   |              |
| 23                    |          | 1.3800               | .5142     |   |              |          | 1.3800               | .5669     |   |              |
| 24                    |          | 1.4425               | .5130     |   |              |          | 1.4425               | .5657     |   |              |
| 25                    | .5421    | 1.5051               | .5118     | 2 |              |          | 1.5051               | .5956     |   |              |
| 26                    |          | 1.5673               | .5102     |   |              |          | 1.5673               | .5945     |   |              |
| 27                    |          | 1.6300               | .5090     |   |              |          | 1.6300               | .5929     |   |              |
| 28                    |          | 1.6925               | .5079     |   |              |          | 1.6925               | .5917     |   |              |
| 29                    |          | 1.7551               | .5067     |   |              |          | 1.7551               | .5905     |   |              |
| 30                    |          | 1.8173               | .5051     |   |              |          | 1.8173               | .5889     |   |              |
| 31                    |          | 1.8800               | .5039     |   |              |          | 1.8800               | .5878     |   |              |
| 32                    |          | 1.9425               | .5027     |   |              |          | 1.9425               | .5866     |   |              |
| 33                    |          | 2.0051               | .5220     |   |              |          | 2.0051               | .5850     |   |              |
| 34                    |          | 2.0673               | .5209     |   |              |          | 2.0673               | .5838     |   |              |
| 35                    |          | 2.1300               | .5197     |   |              |          | 2.1300               | .5826     |   |              |
| 36                    |          | 2.1925               | .5181     |   |              | .6228    | 2.1925               | .5815     | 2 |              |
| 37                    |          | 2.2551               | .5169     |   |              |          | 2.2551               | .5799     |   |              |
| 38                    |          | 2.3173               | .5157     |   |              |          | 2.3173               | .5787     |   |              |
| 39                    |          | 2.3800               | .5142     |   |              |          | 2.3800               | .5775     |   |              |
| 40                    | .5630    | 2.4425               | .5130     | 3 |              |          | 2.4425               | .5760     |   |              |
| 41                    |          | 2.5051               | .5118     |   |              |          | 2.5051               | .5748     |   |              |
| 42                    |          | 2.5673               | .5102     |   |              |          | 2.5673               | .5736     |   |              |
| 43                    |          | 2.6300               | .5090     |   |              |          | 2.6300               | .5720     |   |              |
| 44                    |          | 2.6925               | .5079     |   |              |          | 2.6925               | .5708     |   |              |
| 45                    |          | 2.7551               | .5067     |   |              |          | 2.7551               | .5697     |   |              |
| 46                    |          | 2.8173               | .5051     |   |              |          | 2.8173               | .5681     |   |              |
| 47                    |          | 2.8800               | .5039     |   |              |          | 2.8800               | .5669     |   |              |
| 48                    |          | 2.9425               | .5027     |   |              |          | 2.9425               | .5657     |   |              |
| 49                    |          |                      |           |   |              |          | 3.0051               | .5956     |   |              |
| 50                    |          |                      |           |   |              |          | 3.0673               | .5945     |   |              |
| 51                    |          |                      |           |   |              |          | 3.1300               | .5929     |   |              |
| 52                    |          |                      |           |   |              |          | 3.1925               | .5917     |   |              |
| 53                    |          |                      |           |   |              |          | 3.2551               | .5905     |   |              |
| 54                    |          |                      |           |   |              |          | 3.3173               | .5889     |   |              |
| 55                    |          |                      |           |   |              |          | 3.3800               | .5878     |   |              |
| 56                    |          |                      |           |   |              | .6543    | 3.4425               | .5866     | 3 |              |
| 57                    |          |                      |           |   |              |          | 3.5051               | .5850     |   |              |
| 58                    |          |                      |           |   |              |          | 3.5673               | .5838     |   |              |
| 59                    |          |                      |           |   |              |          | 3.6300               | .5826     |   |              |
| 60                    |          |                      |           |   |              |          | 3.6925               | .5815     |   |              |
| 61                    |          |                      |           |   |              |          | 3.7551               | .5799     |   |              |
| 62                    |          |                      |           |   |              |          | 3.8173               | .5787     |   |              |
| 63                    |          |                      |           |   |              |          | 3.8800               | .5775     |   |              |
| 64                    |          |                      |           |   |              |          | 3.9425               | .5760     |   |              |

| SECOND<br>DASH<br>NO. | 5/8"     |                      |           |   | GROUP<br>NO. | SECOND<br>DASH<br>NO. | 5/8"     |                      |           |   | GROUP<br>NO. |
|-----------------------|----------|----------------------|-----------|---|--------------|-----------------------|----------|----------------------|-----------|---|--------------|
|                       | D<br>DIA | K'<br>+.040<br>-.000 | D'<br>DIA |   |              |                       | D<br>DIA | K'<br>+.040<br>-.000 | D'<br>DIA |   |              |
| 5                     |          | -                    | -         |   |              |                       | -        | -                    | -         | - |              |
| 6                     |          | -                    | -         |   |              |                       | -        | -                    | -         | - |              |
| 7                     |          | .3800                | .6535     |   |              |                       | .3800    | .6524                |           |   |              |
| 8                     |          | .4425                | .6524     |   |              |                       | .4425    | .6508                |           |   |              |
| 9                     |          | .5051                | .6508     |   |              |                       | .5051    | .6496                |           |   |              |
| 10                    |          | .5673                | .6496     |   |              |                       | .5673    | .6484                |           |   |              |
| 11                    |          | .6300                | .6484     |   |              |                       | .6300    | .6468                |           |   |              |
| 12                    |          | .6925                | .6468     |   |              |                       | .6925    | .6457                |           |   |              |
| 13                    |          | .7551                | .6457     |   |              |                       | .7551    | .6445                |           |   |              |
| 14                    |          | .8173                | .6445     |   |              |                       | .8173    | .6429                |           |   |              |
| 15                    | .6575    | .8800                | .6429     | 1 |              | .7252                 | .8800    | .6417                |           |   | 3            |
| 16                    |          | .9425                | .6417     |   |              |                       | .9425    | .6405                |           |   |              |
| 17                    |          | 1.0051               | .6405     |   |              |                       | 1.0051   | .6394                |           |   |              |
| 18                    |          | 1.0673               | .6394     |   |              |                       | 1.0673   | .6378                |           |   |              |
| 19                    |          | 1.1300               | .6378     |   |              |                       | 1.1300   | .6366                |           |   |              |
| 20                    |          | 1.1925               | .6366     |   |              |                       | 1.1925   | .6354                |           |   |              |
| 21                    |          | 1.2551               | .6354     |   |              |                       | 1.2551   | .6338                |           |   |              |
| 22                    |          | 1.3173               | .6338     |   |              |                       | 1.3173   | .6327                |           |   |              |
| 23                    |          | 1.3800               | .6327     |   |              |                       | 1.3800   | .6315                |           |   |              |
| 24                    |          | 1.4425               | .6315     |   |              |                       | 1.4425   | .6299                |           |   |              |
| 25                    |          | 1.5051               | .6299     |   |              |                       | 1.5051   | .6287                |           |   |              |
| 26                    |          | 1.5673               | .6287     |   |              |                       | 1.5673   | .6275                |           |   |              |
| 27                    |          | 1.6300               | .6275     |   |              |                       | 1.6300   | .6263                |           |   |              |
| 28                    |          | 1.6925               | .6263     |   |              |                       | 1.6925   | .6251                |           |   |              |
| 29                    |          | 1.7551               | .6251     |   |              |                       | 1.7551   | .6239                |           |   |              |
| 30                    |          | 1.8173               | .6239     |   |              |                       | 1.8173   | .6227                |           |   |              |
| 31                    |          | 1.8800               | .6227     |   |              |                       | 1.8800   | .6215                |           |   |              |
| 32                    |          | 1.9425               | .6215     |   |              |                       | 1.9425   | .6203                |           |   |              |
| 33                    |          | 2.0051               | .6203     |   |              |                       | 2.0051   | .6191                |           |   |              |
| 34                    |          | 2.0673               | .6191     |   |              |                       | 2.0673   | .6179                |           |   |              |
| 35                    |          | 2.1300               | .6179     |   |              |                       | 2.1300   | .6167                |           |   |              |
| 36                    |          | 2.1925               | .6167     |   |              |                       | 2.1925   | .6155                |           |   |              |
| 37                    |          | 2.2551               | .6155     |   |              |                       | 2.2551   | .6143                |           |   |              |
| 38                    |          | 2.3173               | .6143     |   |              |                       | 2.3173   | .6131                |           |   |              |
| 39                    |          | 2.3800               | .6131     |   |              |                       | 2.3800   | .6119                |           |   |              |
| 40                    | .6913    | 2.4425               | .6119     | 2 |              |                       | 2.4425   | .6107                |           |   |              |
| 41                    |          | 2.5051               | .6107     |   |              |                       | 2.5051   | .6095                |           |   |              |
| 42                    |          | 2.5673               | .6095     |   |              |                       | 2.5673   | .6083                |           |   |              |
| 43                    |          | 2.6300               | .6083     |   |              |                       | 2.6300   | .6071                |           |   |              |
| 44                    |          | 2.6925               | .6071     |   |              |                       | 2.6925   | .6059                |           |   |              |
| 45                    |          | 2.7551               | .6059     |   |              |                       | 2.7551   | .6047                |           |   |              |
| 46                    |          | 2.8173               | .6047     |   |              |                       | 2.8173   | .6035                |           |   |              |
| 47                    |          | 2.8800               | .6035     |   |              |                       | 2.8800   | .6023                |           |   |              |
| 48                    |          | 2.9425               | .6023     |   |              |                       | 2.9425   | .6011                |           |   |              |
| 49                    |          | 3.0051               | .6011     |   |              |                       | 3.0051   | .6000                |           |   |              |
| 50                    |          | 3.0673               | .6000     |   |              |                       | 3.0673   | .5988                |           |   |              |
| 51                    |          | 3.1300               | .5988     |   |              |                       | 3.1300   | .5976                |           |   |              |
| 52                    |          | 3.1925               | .5976     |   |              |                       | 3.1925   | .5964                |           |   |              |

DRAWING NUMBER

**HSTL970**

4 OF 6

TABLE 2 (CONTINUED)

| 3/4"            |       |                |        |           |                 |       |                |        |           |
|-----------------|-------|----------------|--------|-----------|-----------------|-------|----------------|--------|-----------|
| SECOND DASH NO. | D DIA | K' +.040 -.000 | D' DIA | GROUP NO. | SECOND DASH NO. | D DIA | K' +.040 -.000 | D' DIA | GROUP NO. |
| 5               |       | -              | -      |           | -               |       | -              | -      |           |
| 6               |       | -              | -      |           | -               |       | -              | -      |           |
| 7               |       | -              | -      |           | -               |       | -              | -      |           |
| 8               |       | .4425          | .7834  |           | 65              |       | 4.0051         | .7878  |           |
| 9               |       | .5051          | .7823  |           | 66              |       | 4.0673         | .7862  |           |
| 10              |       | .5673          | .7811  |           | 67              |       | 4.1300         | .7850  |           |
| 11              |       | .6300          | .7795  |           | 68              |       | 4.1925         | .7835  |           |
| 12              |       | .6925          | .7783  |           | 69              |       | 4.2551         | .7823  |           |
| 13              |       | .7551          | .7772  |           | 70              |       | 4.3173         | .7811  |           |
| 14              |       | .8173          | .7760  |           | 71              |       | 4.3800         | .7795  |           |
| 15              |       | .8800          | .7744  |           | 72              |       | 4.4425         | .7783  |           |
| 16              |       | .9425          | .7732  |           | 73              |       | 4.5051         | .7772  |           |
| 17              |       | 1.0051         | .7720  |           | 74              |       | 4.5673         | .7760  |           |
| 18              | .7876 | 1.0673         | .7705  | 1         | 75              | .8657 | 4.6300         | .7744  | 3         |
| 19              |       | 1.1300         | .7693  |           | 76              |       | 4.6925         | .7732  |           |
| 20              |       | 1.1925         | .7681  |           | 77              |       | 4.7551         | .7720  |           |
| 21              |       | 1.2551         | .7665  |           | 78              |       | 4.8173         | .7705  |           |
| 22              |       | 1.3173         | .7653  |           | 79              |       | 4.8800         | .7693  |           |
| 23              |       | 1.3800         | .7642  |           | 80              |       | 4.9425         | .7681  |           |
| 24              |       | 1.4425         | .7630  |           | 81              |       | 5.0051         | .7665  |           |
| 25              |       | 1.5051         | .7614  |           | 82              |       | 5.0673         | .7653  |           |
| 26              |       | 1.5673         | .7602  |           | 83              |       | 5.1300         | .7642  |           |
| 27              |       | 1.6300         | .7590  |           | 84              |       | 5.1925         | .7630  |           |
| 28              |       | 1.6925         | .7575  |           | 85              |       | 5.2551         | .7614  |           |
| 29              |       | 1.7551         | .7563  |           | 86              |       | 5.3173         | .7602  |           |
| 30              |       | 1.8173         | .7551  |           | 87              |       | 5.3800         | .7590  |           |
| 31              |       | 1.8800         | .7930  |           | 88              |       | 5.4425         | .7574  |           |
| 32              |       | 1.9425         | .7913  |           | 89              |       | 5.5051         | .7563  |           |
| 33              |       | 2.0051         | .7901  |           | 90              |       | 5.5673         | .7551  |           |
| 34              |       | 2.0673         | .7890  |           |                 |       |                |        |           |
| 35              |       | 2.1300         | .7878  |           |                 |       |                |        |           |
| 36              |       | 2.1925         | .7862  |           |                 |       |                |        |           |
| 37              |       | 2.2551         | .7842  |           |                 |       |                |        |           |
| 38              |       | 2.3173         | .7835  |           |                 |       |                |        |           |
| 39              |       | 2.3800         | .7823  |           |                 |       |                |        |           |
| 40              |       | 2.4425         | .7811  |           |                 |       |                |        |           |
| 41              |       | 2.5051         | .7795  |           |                 |       |                |        |           |
| 42              |       | 2.5673         | .7783  |           |                 |       |                |        |           |
| 43              |       | 2.6300         | .7772  |           |                 |       |                |        |           |
| 44              |       | 2.6925         | .7760  |           |                 |       |                |        |           |
| 45              | .8268 | 2.7551         | .7744  | 2         |                 |       |                |        |           |
| 46              |       | 2.8173         | .7732  |           |                 |       |                |        |           |
| 47              |       | 2.8800         | .7720  |           |                 |       |                |        |           |
| 48              |       | 2.9425         | .7705  |           |                 |       |                |        |           |
| 49              |       | 3.0051         | .7693  |           |                 |       |                |        |           |
| 50              |       | 3.0673         | .7681  |           |                 |       |                |        |           |
| 51              |       | 3.1300         | .7665  |           |                 |       |                |        |           |
| 52              |       | 3.1925         | .7653  |           |                 |       |                |        |           |
| 53              |       | 3.2551         | .7642  |           |                 |       |                |        |           |
| 54              |       | 3.3173         | .7630  |           |                 |       |                |        |           |
| 55              |       | 3.3800         | .7614  |           |                 |       |                |        |           |
| 56              |       | 3.4425         | .7602  |           |                 |       |                |        |           |
| 57              |       | 3.5051         | .7590  |           |                 |       |                |        |           |
| 58              |       | 3.5673         | .7575  |           |                 |       |                |        |           |
| 59              |       | 3.6300         | .7563  |           |                 |       |                |        |           |
| 60              |       | 3.6925         | .7551  |           |                 |       |                |        |           |
| 61              |       | 3.7551         | .7930  |           |                 |       |                |        |           |
| 62              |       | 3.8173         | .7913  |           |                 |       |                |        |           |
| 63              | .8657 | 3.8800         | .7901  | 3         |                 |       |                |        |           |
| 64              |       | 3.9425         | .7890  |           |                 |       |                |        |           |

| 7/8"            |       |                |        |           |                 |        |                |        |           |
|-----------------|-------|----------------|--------|-----------|-----------------|--------|----------------|--------|-----------|
| SECOND DASH NO. | D DIA | K' +.040 -.000 | D' DIA | GROUP NO. | SECOND DASH NO. | D DIA  | K' +.040 -.000 | D' DIA | GROUP NO. |
| 5               |       | -              | -      |           | -               |        | -              | -      |           |
| 6               |       | -              | -      |           | -               |        | -              | -      |           |
| 7               |       | -              | -      |           | -               |        | -              | -      |           |
| 8               |       | -              | -      |           | -               |        | -              | -      |           |
| 9               |       | .5051          | .9165  |           | 65              |        | 4.0051         | .8901  | 2         |
| 10              |       | .5673          | .9150  |           | 66              | .9685  | 4.0673         | .8890  |           |
| 11              |       | .6300          | .9138  |           | 67              |        | 4.1300         | .8878  |           |
| 12              |       | .6925          | .9122  |           | 68              |        | 4.1925         | .8862  |           |
| 13              |       | .7551          | .9110  |           | 69              |        | 4.2551         | .8850  |           |
| 14              |       | .8173          | .9098  |           | 70              |        | 4.3173         | .8838  |           |
| 15              |       | .8800          | .9086  |           | 71              |        | 4.3800         | .8827  |           |
| 16              |       | .9425          | .9071  |           | 72              |        | 4.4425         | .8811  |           |
| 17              |       | 1.0051         | .9060  |           | 73              |        | 4.5051         | .9268  |           |
| 18              | .9217 | 1.0673         | .9047  | 1         | 74              |        | 4.5673         | .9256  |           |
| 19              |       | 1.1300         | .9031  |           | 75              |        | 4.6300         | .9240  |           |
| 20              |       | 1.1925         | .9020  |           | 76              |        | 4.6925         | .9228  |           |
| 21              |       | 1.2551         | .9008  |           | 77              |        | 4.7551         | .9216  |           |
| 22              |       | 1.3173         | .8992  |           | 78              |        | 4.8173         | .9205  |           |
| 23              |       | 1.3800         | .8980  |           | 79              |        | 4.8800         | .9189  |           |
| 24              |       | 1.4425         | .8968  |           | 80              |        | 4.9425         | .9177  |           |
| 25              |       | 1.5051         | .8957  |           | 81              |        | 5.0051         | .9165  |           |
| 26              |       | 1.5673         | .8941  |           | 82              |        | 5.0673         | .9150  |           |
| 27              |       | 1.6300         | .8930  |           | 83              |        | 5.1300         | .9138  |           |
| 28              |       | 1.6925         | .8917  |           | 84              |        | 5.1925         | .9122  |           |
| 29              |       | 1.7551         | .8902  |           | 85              |        | 5.2551         | .9110  |           |
| 30              |       | 1.8173         | .8890  |           | 86              |        | 5.3173         | .9098  |           |
| 31              |       | 1.8800         | .8878  |           | 87              |        | 5.3800         | .9086  |           |
| 32              |       | 1.9425         | .8862  |           | 88              |        | 5.4425         | .9071  |           |
| 33              |       | 2.0051         | .8850  |           | 89              | 1.0153 | 5.5051         | .9059  | 3         |
| 34              |       | 2.0673         | .8838  |           | 90              |        | 5.5673         | .9047  |           |
| 35              |       | 2.1300         | .8827  |           | 91              |        | 5.6300         | .9031  |           |
| 36              |       | 2.1925         | .8811  |           | 92              |        | 5.6925         | .9020  |           |
| 37              |       | 2.2551         | .9268  |           | 93              |        | 5.7551         | .9008  |           |
| 38              |       | 2.3173         | .9256  |           | 94              |        | 5.8173         | .8992  |           |
| 39              |       | 2.3800         | .9240  |           | 95              |        | 5.8800         | .8980  |           |
| 40              |       | 2.4425         | .9228  |           | 96              |        | 5.9425         | .8968  |           |
| 41              |       | 2.5051         | .9216  |           | 97              |        | 6.0051         | .8957  |           |
| 42              |       | 2.5673         | .9205  |           | 98              |        | 6.0673         | .8941  |           |
| 43              |       | 2.6300         | .9189  |           | 99              |        | 6.1300         | .8929  |           |
| 44              |       | 2.6925         | .9177  |           | 100             |        | 6.1925         | .8917  |           |
| 45              |       | 2.7551         | .9165  |           | 101             |        | 6.2551         | .8901  |           |
| 46              |       | 2.8173         | .9150  |           | 102             |        | 6.3173         | .8890  |           |
| 47              |       | 2.8800         | .9138  |           | 103             |        | 6.3800         | .8878  |           |
| 48              |       | 2.9425         | .9122  |           | 104             |        | 6.4425         | .8862  |           |
| 49              |       | 3.0051         | .9110  |           | 105             |        | 6.5051         | .8850  |           |
| 50              |       | 3.0673         | .9098  |           | 106             |        | 6.5673         | .8838  |           |
| 51              | .9685 | 3.1300         | .9086  | 2         | 107             |        | 6.6300         | .8827  |           |
| 52              |       | 3.1925         | .9071  |           | 108             |        | 6.6925         | .8811  |           |
| 53              |       | 3.2551         | .9059  |           |                 |        |                |        |           |
| 54              |       | 3.3173         | .9047  |           |                 |        |                |        |           |
| 55              |       | 3.3800         | .9031  |           |                 |        |                |        |           |
| 56              |       | 3.4425         | .9020  |           |                 |        |                |        |           |
| 57              |       | 3.5051         | .9008  |           |                 |        |                |        |           |
| 58              |       | 3.5673         | .8992  |           |                 |        |                |        |           |
| 59              |       | 3.6300         | .8980  |           |                 |        |                |        |           |
| 60              |       | 3.6925         | .8968  |           |                 |        |                |        |           |
| 61              |       | 3.7551         | .8957  |           |                 |        |                |        |           |
| 62              |       | 3.8173         | .8941  |           |                 |        |                |        |           |
| 63              |       | 3.8800         | .8929  |           |                 |        |                |        |           |
| 64              |       | 3.9425         | .8917  |           |                 |        |                |        |           |

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TABLE 2 (CONTINUED)

| 1"                    |          |                      |           |              |                       |          |                      |           |              |
|-----------------------|----------|----------------------|-----------|--------------|-----------------------|----------|----------------------|-----------|--------------|
| SECOND<br>DASH<br>NO. | D<br>DIA | K'<br>+.040<br>-.000 | D'<br>DIA | GROUP<br>NO. | SECOND<br>DASH<br>NO. | D<br>DIA | K'<br>+.040<br>-.000 | D'<br>DIA | GROUP<br>NO. |
| 5                     |          | -                    | -         |              | -                     |          | -                    | -         |              |
| 6                     |          | -                    | -         |              | -                     |          | -                    | -         |              |
| 7                     |          | -                    | -         |              | -                     |          | -                    | -         |              |
| 8                     |          | -                    | -         |              | -                     |          | -                    | -         |              |
| 9                     |          | -                    | -         |              | 65                    |          | 4.0051               | 1.0279    |              |
| 10                    |          | .5673                | 1.0476    |              | 66                    |          | 4.0673               | 1.0268    |              |
| 11                    |          | .6300                | 1.0464    |              | 67                    |          | 4.1300               | 1.0256    |              |
| 12                    |          | .6925                | 1.0449    |              | 68                    |          | 4.1925               | 1.0240    |              |
| 13                    |          | .7551                | 1.0437    |              | 69                    |          | 4.2551               | 1.0228    |              |
| 14                    |          | .8173                | 1.0425    |              | 70                    | 1.1051   | 4.3173               | 1.0216    | 2            |
| 15                    |          | .8800                | 1.0409    |              | 71                    |          | 4.3800               | 1.0201    |              |
| 16                    |          | .9425                | 1.0398    |              | 72                    |          | 4.4425               | 1.0189    |              |
| 17                    |          | 1.0051               | 1.0386    |              | 73                    |          | 4.5051               | 1.0177    |              |
| 18                    | 1.0531   | 1.0673               | 1.0370    | 1            | 74                    |          | 4.5673               | 1.0161    |              |
| 19                    |          | 1.1300               | 1.0358    |              | 75                    |          | 4.6300               | 1.0149    |              |
| 20                    |          | 1.1925               | 1.0346    |              | 76                    |          | 4.6925               | 1.0138    |              |
| 21                    |          | 1.2551               | 1.0331    |              | 77                    |          | 4.7551               | 1.0122    |              |
| 22                    |          | 1.3173               | 1.0319    |              | 78                    |          | 4.8173               | 1.0110    |              |
| 23                    |          | 1.3800               | 1.0307    |              | 79                    |          | 4.8800               | 1.0098    |              |
| 24                    |          | 1.4425               | 1.0291    |              | 80                    |          | 4.9425               | 1.0086    |              |
| 25                    |          | 1.5051               | 1.0279    |              | 81                    |          | 5.0051               | 1.0594    |              |
| 26                    |          | 1.5673               | 1.0268    |              | 82                    |          | 5.0673               | 1.0579    |              |
| 27                    |          | 1.6300               | 1.0259    |              | 83                    |          | 5.1300               | 1.0567    |              |
| 28                    |          | 1.6925               | 1.0240    |              | 84                    |          | 5.1925               | 1.0555    |              |
| 29                    |          | 1.7551               | 1.0228    |              | 85                    |          | 5.2551               | 1.0539    |              |
| 30                    |          | 1.8173               | 1.0216    |              | 86                    |          | 5.3173               | 1.0527    |              |
| 31                    |          | 1.8800               | 1.0201    |              | 87                    |          | 5.3800               | 1.0516    |              |
| 32                    |          | 1.9425               | 1.0189    |              | 88                    |          | 5.4425               | 1.0504    |              |
| 33                    |          | 2.0051               | 1.0177    |              | 89                    |          | 5.5051               | 1.0488    |              |
| 34                    |          | 2.0673               | 1.0161    |              | 90                    |          | 5.5673               | 1.0476    |              |
| 35                    |          | 2.1300               | 1.0149    |              | 91                    |          | 5.6300               | 1.0464    |              |
| 36                    |          | 2.1925               | 1.0138    |              | 92                    |          | 5.6925               | 1.0449    |              |
| 37                    |          | 2.2551               | 1.0122    |              | 93                    |          | 5.7551               | 1.0437    |              |
| 38                    |          | 2.3173               | 1.0110    |              | 94                    |          | 5.8173               | 1.0425    |              |
| 39                    |          | 2.3800               | 1.0098    |              | 95                    |          | 5.8800               | 1.0409    |              |
| 40                    |          | 2.4425               | 1.0086    |              | 96                    |          | 5.9425               | 1.0398    |              |
| 41                    |          | 2.5051               | 1.0594    |              | 97                    |          | 6.0051               | 1.0386    |              |
| 42                    |          | 2.5673               | 1.0579    |              | 98                    |          | 6.0673               | 1.0370    |              |
| 43                    |          | 2.6300               | 1.0567    |              | 99                    |          | 6.1300               | 1.0358    |              |
| 44                    |          | 2.6925               | 1.0555    |              | 100                   |          | 6.1925               | 1.0346    |              |
| 45                    |          | 2.7551               | 1.0539    |              | 101                   |          | 6.2551               | 1.0331    |              |
| 46                    |          | 2.8173               | 1.0527    |              | 102                   | 1.1571   | 6.3173               | 1.0319    | 3            |
| 47                    |          | 2.8800               | 1.0516    |              | 103                   |          | 6.3800               | 1.0307    |              |
| 48                    |          | 2.9425               | 1.0504    |              | 104                   |          | 6.4425               | 1.0291    |              |
| 49                    |          | 3.0051               | 1.0488    |              | 105                   |          | 6.5051               | 1.0279    |              |
| 50                    |          | 3.0673               | 1.0476    |              | 106                   |          | 6.5673               | 1.0268    |              |
| 51                    | 1.1051   | 3.1300               | 1.0464    | 2            | 107                   |          | 6.6300               | 1.0256    |              |
| 52                    |          | 3.1925               | 1.0449    |              | 108                   |          | 6.6925               | 1.0240    |              |
| 53                    |          | 3.2551               | 1.0437    |              | 109                   |          | 6.7551               | 1.0228    |              |
| 54                    |          | 3.3173               | 1.0425    |              | 110                   |          | 6.8173               | 1.0216    |              |
| 55                    |          | 3.3800               | 1.0409    |              | 111                   |          | 6.8800               | 1.0200    |              |
| 56                    |          | 3.4425               | 1.0398    |              | 112                   |          | 6.9425               | 1.0189    |              |
| 57                    |          | 3.5051               | 1.0386    |              | 113                   |          | 7.0051               | 1.0177    |              |
| 58                    |          | 3.5673               | 1.0370    |              | 114                   |          | 7.0673               | 1.0161    |              |
| 59                    |          | 3.6300               | 1.0358    |              | 115                   |          | 7.1300               | 1.0149    |              |
| 60                    |          | 3.6925               | 1.0346    |              | 116                   |          | 7.1925               | 1.0138    |              |
| 61                    |          | 3.7551               | 1.0331    |              | 117                   |          | 7.2551               | 1.0122    |              |
| 62                    |          | 3.8173               | 1.0319    |              | 118                   |          | 7.3173               | 1.0110    |              |
| 63                    |          | 3.8800               | 1.0307    |              | 119                   |          | 7.3800               | 1.0098    |              |
| 64                    |          | 3.9425               | 1.0291    |              | 120                   |          | 7.4425               | 1.0086    |              |

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