DRAWING SIZE F

NOTES:

1. APPLICABLE SPECIFICATIONS AND STANDARDS:
   A. ASME Y14.100-2017.
   B. ASME Y14.5-2009.
   C. MIL-G-10944.
   D. MIL-STD-120 REF.

2. MATERIAL:
   GAGE: HIGH-SPEED TOOL STEEL, TYPE T1 THROUGH T15 OR M1 THROUGH M62 PER ASTM A600 OR ALLOY TOOL STEEL, TYPE O1 PER ASTM A681.
   TAG: ALUMINUM ALLOY 1100 OR 3003-H1X OR H2X PER ASTM B209 OR PHOTOSENSITIVE ANODIZED ALUMINUM PLATE, TYPE II, GRADE A, CLASS 2 PER GG-P-455.

3. HEAT TREATMENT: FOR LENGTH H ONLY, HEAT TREAT TO PRODUCE HARDNESS EQUIVALENT TO HRC 60 TO 63.

4. ALTERNATE METHOD:
   HEAT TREAT PER NOTE 3. APPLY FINISH 1.2.2 OF MIL-STD-171. FILM THICKNESS FOR LENGTH W SHALL BE .0010±.0005. (Ø.2213±.0002 APPLIES AFTER FINISH.)

5. BREAK EDGES $.005^{+.010}_{-.000}$ EXCEPT AS NOTED.

6. SURFACE FINISH: 63 EXCEPT AS NOTED.

7. MARK DATA AS SHOWN. DATA SHALL BE LEGIBLE.
   GAGE: NUMBERS AND LETTERS SHALL BE .06±.01 HIGH.
   TAG: NUMBERS AND LETTERS SHALL BE .12±.01 HIGH, AND SPACE BETWEEN LINES SHALL BE .03 MIN.

8. NEWLY-PRODUCED GAGES SHALL MEET ALL REQUIREMENTS OF THE DRAWING. ANNUAL FIELD RE-CALIBRATION REQUIREMENTS ARE NOTED. WITH REGARD TO ANNUAL FIELD RE-CALIBRATION, A REVISION LETTER MAY BE MARKED ON THE GAGE PER EARLIER DRAWING REVISIONS.

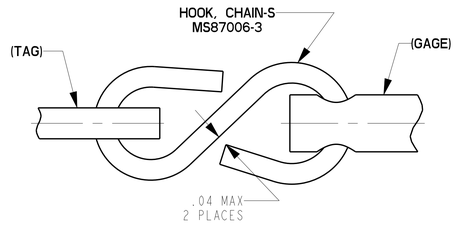
9. ALL MAJOR QAP CHARACTERISTICS SHALL BE LISTED ON THE GAGE RECORD CARD IN THE BLOCK ENTITLED "REQUIRED COMPONENT DIMENSION." EACH DIMENSION SHALL BE MEASURED AND THE MEASUREMENT RECORDED IN THE BLOCK ENTITLED "ACTUAL GAGE DIMENSIONS." EACH CARD SHALL BE SIGNED AND DATED BY THE CONTRACTOR CERTIFYING THAT THE GAGE COMPLIES WITH THE REQUIRED DIMENSIONS SPECIFIED ON THE GAGE DRAWING AND SHALL BE PLACED IN THE PACKAGING WITH THE GAGE. EACH PACKAGE ASSEMBLY SHALL CONTAIN ONE GAGE AND THE GAGE RECORD CARD SPECIFIC TO THAT GAGE. THE GAGE RECORD CARD MUST BE COMPLETED AT THE TIME OF ACCEPTANCE BY THE ACCEPTANCE POINT (ORIGIN OR DESTINATION) IDENTIFIED IN THE CONTRACT.

10. THE LABEL OR OTHER MARKING SHALL CONTAIN A LINEAR BAR CODE (MACHINE-READABLE INFORMATION), ALONG WITH THE HUMAN-READABLE INTERPRETATION, REPRESENTING THE GAGE IDENTIFICATION NUMBER. A DUPLICATE LABEL OR OTHER MARKING SHALL APPEAR ON THE GAGE RECORD CARD IN THE BLOCK ENTITLED "IDENTIFICATION NO." EACH GAGE IDENTIFICATION NUMBER SHALL BE CHOSEN/ASSIGNED BY THE GOVERNMENT.

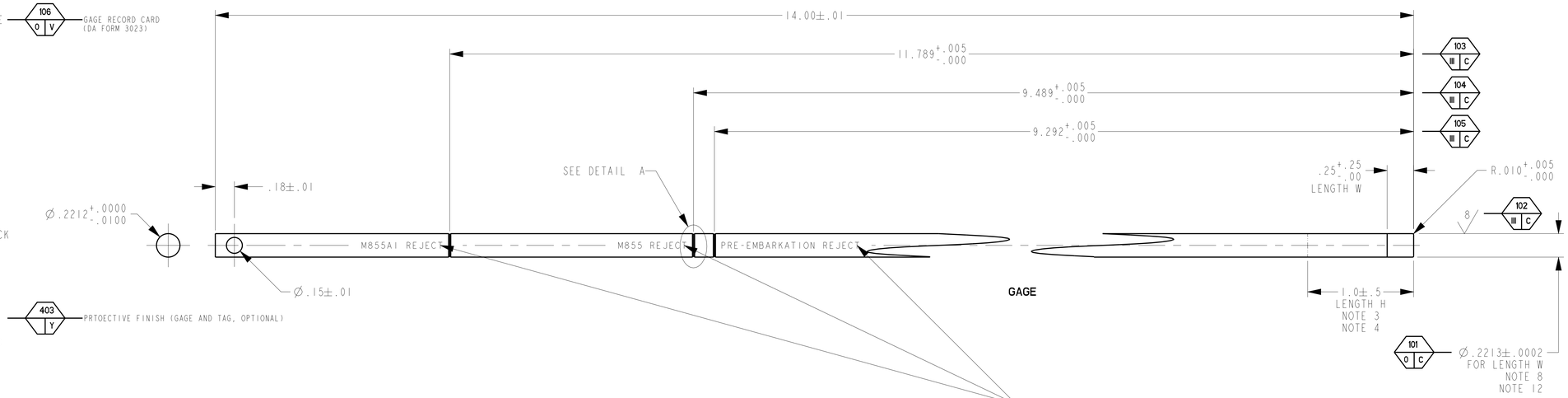
11. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

12. OPTIONAL PROTECTIVE FINISH:
    GAGE (IN LIEU OF ALTERNATE METHOD PER NOTE 4): FINISH 3.3.1 OR 3.3.2 OF MIL-STD-171 EXCEPT ON Ø.2213 AND .020 X 90°, 3 PLACES.
    TAG: FINISH 7.2.2 OF MIL-STD 171. COLOR: APPROXIMATELY COLOR NO. 37038 (FLAT BLACK) BUT NOT LIGHTER THAN COLOR NO. 36081 OF SAE AMS-STD-595.

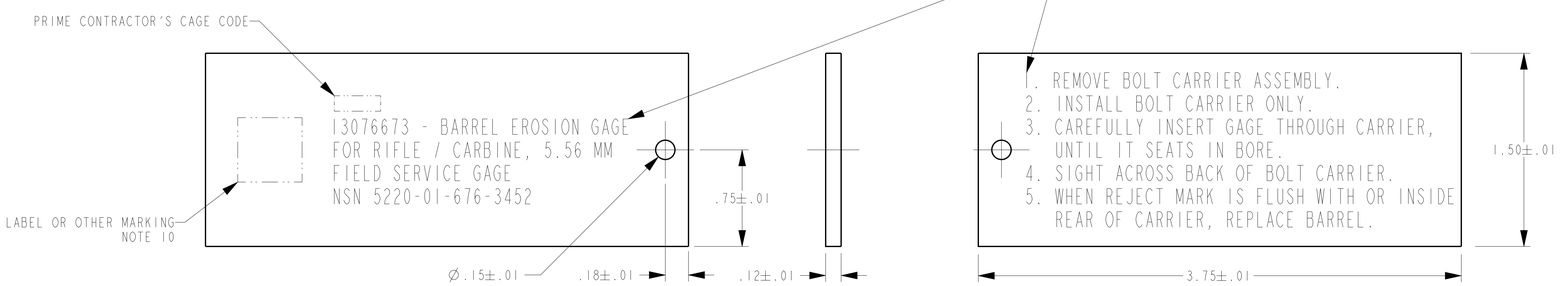
401 Y — MATERIAL (GAGE AND TAG)
501 Z — HARDNESS
402 Y — PROTECTIVE FINISH (GAGE, ALTERNATE METHOD)
201 II V — NO MISSING OR DEFECTIVE PROTECTIVE FINISH
105 O V — MARKING PER MIL-STD-130
106 O V — GAGE RECORD CARD (DA FORM 3023)
403 Y — PRTOECTIVE FINISH (GAGE AND TAG, OPTIONAL)



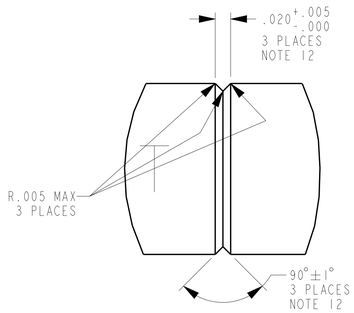
ASSEMBLY DETAIL VIEW
SCALE 4.000



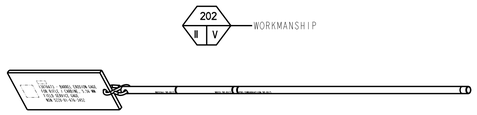
GAGE



TAG



DETAIL A
SCALE 12.000



ISOMETRIC VIEW
SCALE 0.500

DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

REVISIONS			
REVISION	DESCRIPTION	DATE (YEAR-MO-DA)	APPROVED
-	PRODUCT BASELINE REPLACES WITH CHANGE DRAWING NUMBERS 8448496 AND 13008844 ERR LI8533118	2018-10-29	BAC
A	NOR LI9S3068 / 2020-01-08	2020-01-09	BAC

THIS DRAWING WAS GENERATED FROM A SOLID MODEL AND IS CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 13076673

PMIC			DO NOT SCALE DRAWING
MECHANICAL PROPERTIES			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
YP		M4A1	TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±
TS		M4	
EL2		M16A4	THIRD ANGLE PROJECTION
RA		M16A3	
BH		M16A2	
RH	NEXT ASSY	USED ON	MATL ENGR
	APPLICATION		MODELED BY R. BROWN

CONTRACT NUMBER	
CONTRACTOR	
DRAWN BY R. BROWN	DATE (YEAR-MO-DA) 2018-10-10
CHECKER T. YIP	ENGINEER V. ESCALONA
ENGINEER R. BROWN	QUALITY ENGINEER M. WARTA
DRAWING APPROVAL R. BROWN	2018-10-25
DESIGN APPROVAL J. WINDHAM	2018-10-25

DESIGN ACTIVITY
US ARMY
COMBAT CAPABILITIES DEVELOPMENT COMMAND ARMAMENTS CENTER
PICATINNY ARSENAL, NEW JERSEY 07806-5000

BARREL EROSION GAGE

SIZE	DAI	DWG NO.
F	19200	13076673

SCALE	UNIT WT.	SHEET
2.000	0.224	1 OF 1

FORMAT: F_TACOM_ENG_1.0