



DETAIL DETAIL A  
SCALE 5 : 1

SECTION A-A

MAKE FROM MODEL: 1509-GS-002-B

NOTES:

- MATERIAL: A4140HT STEEL BAR, QUENCH AND TEMPERED 269/321 BHN. ALTERNATIVE MATERIAL: 4340 STEEL
- IDENTIFY WITH PART NUMBER, REV LEVEL, SUPPLIER INITIALS, JOB NUMBER, AND SHOP ORDER NUMBER
- NON SPECIFIED FILLETS - R3, NON SPECIFIED CHAMFERS - 1x45°

REV	CHANGED FROM	BY	DATE	APRD
A	PRE-RELEASE	JFC	8/29/12	
B	SHARP EDGE TO .05x45°:REVIEWED & UPDATED PER 1509-ENC-004 IF REQUIRED	CPS	1/18/13	
C	REMOVE SHARP EDGE, ADD FLAT ON NOSE, UPDATE BORDER	CPS	3/18/13	
D	REMOVE NOSE FLAT & MOD DIA. RELEASE FOR PRODUCTION	CPS	4/18/13	
E	CHANGES PER MANUFACTURER REVIEW AND INSTRUMENTATION	CPG	1/30/14	
F	ALTERNATIVE MATERIAL APPROVED	CPG	3/19/14	

REPORT ERRORS & CHANGES  
REMOVE ALL BURRS AND SHARP EDGES  
DIMENSIONS ARE IN MILLIMETERS.  
UNSPECIFIED TOLERANCES:

DECIMALS: FINISH: ANGLES:

X. ±1.0 6.3 /  $\sqrt{\mu m Ra}$  <math>\leq \pm 0.5^\circ</math>  
.X ±0.5  
.XX ±0.25

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OTHER DRAWINGS OR MACHINERY

DRAWN JFC DATE: 8/29/12  
CHECKED NJB THIRD ANGLE PRJ

**National Renewable Energy Laboratory**

TITLE: IM SHAFT - LEADING END CAP

SIZE **B** DWG. NO. 254509 REV **F**

SCALE: 1:1 WEIGHT: 0.38 kgs SHEET 1 OF 1