CERTIFICATES OF COMPETENCY IN THE MERCHANT NAVY – MARINE ENGINEER OFFICER

EXAMINATIONS ADMINISTERED BY THE
SCOTTISH QUALIFICATIONS AUTHORITY
ON BEHALF OF THE
MARITIME AND COASTGUARD AGENCY

STCW 95 SECOND ENGINEER REG. III/2 (UNLIMITED)

042-24 – ENGINEERING DRAWING

WEDNESDAY, 12 DECEMBER 2012

1300 - 1700 hrs

Examination paper inserts:

Drawing Fig Q1

Notes for the guidance of candidates:

Candidates should attach their drawing to the examination workbook front sheet

Materials to be supplied by examination centres:

Drawing Board Candidate's examination workbook A2 Drawing Paper Tee Square

ENGINEERING DRAWING

Attempt ALL parts of the questions

Marks for each part of the question are shown in brackets

1. Fig Q1 shows details of an auxiliary steam turbine THROTTLE CONTROL VALVE.

   (a) Draw FULL SIZE in FIRST ANGLE PROJECTION the following views of the assembled valve using the centre line positions as shown in Fig Q1(a):

   (i) an elevation viewed from ARROW F; (20)

   (ii) a plan projected from (a)(i), viewed from ARROW A showing;

   (1) the top half of the view in section on the centre line of the spindle; (45)

   (2) the bottom half as an outside view. (12)

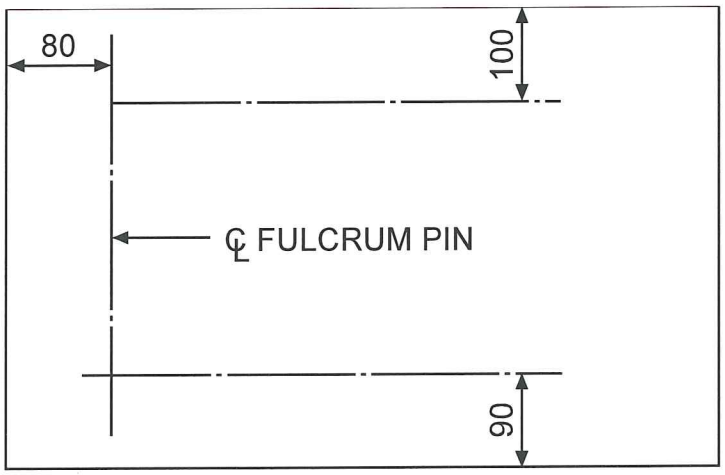


Fig Q1(a)

   (b) Complete the drawing by adding the following:

   (i) a parts list with the individual items clearly identified on the assembly drawing: (14)

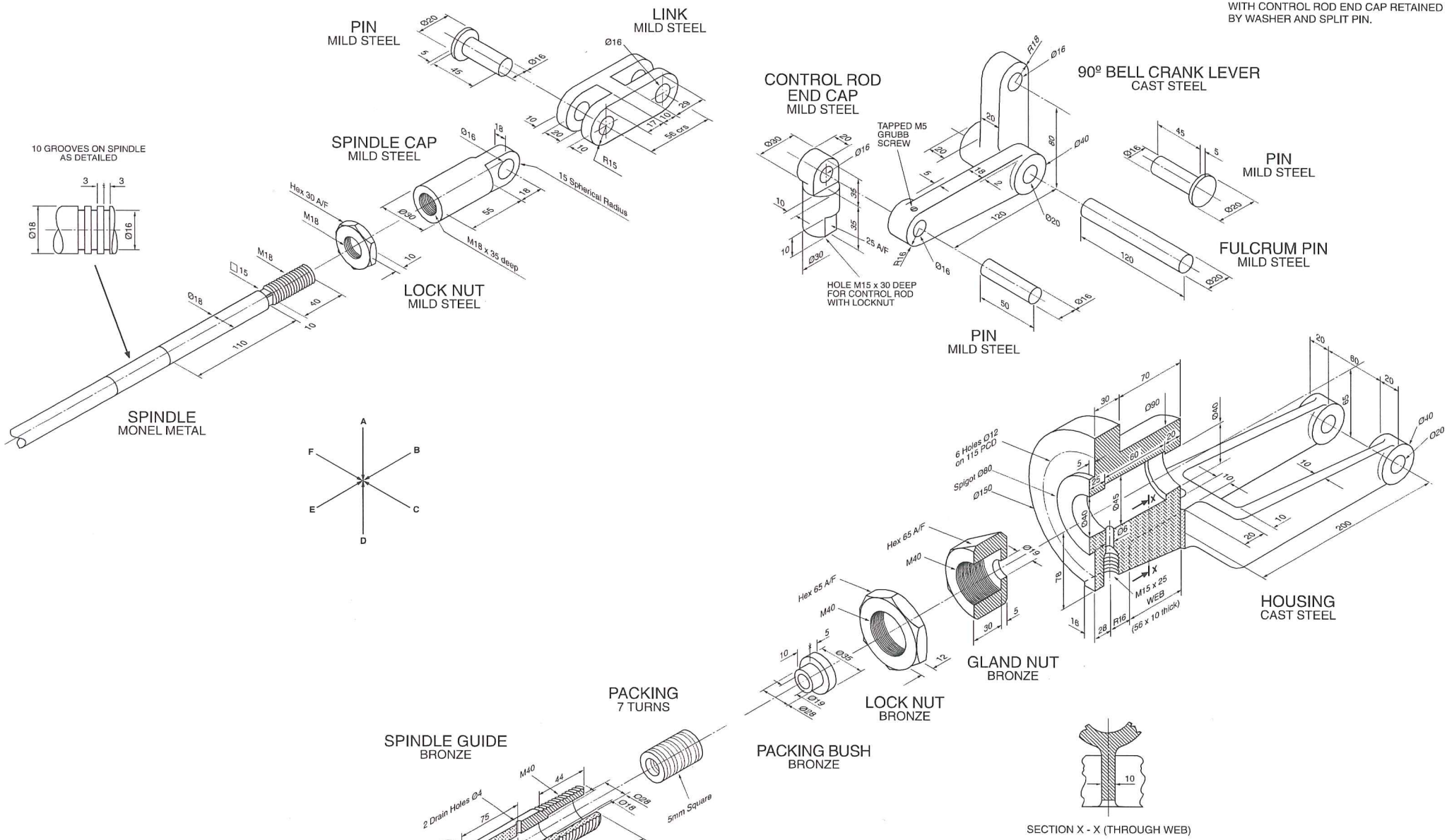
   (ii) a title and the scale; (2)

   (iii) the projection symbol; (1)

   (iv) SIX main assembled dimensions. (6)

   The drawing should be in accordance with B.S. 308:1993 and hidden detail should be omitted.

LINK PINS AND FULCRUM PN RETAINED BY WASHERS AND SPLIT PINS. CONTROL ROD PIN RETAINED BY GRUBB SCREW IN BELL CRANK LEVER ARM WITH CONTROL ROD END CAP RETAINED BY WASHER AND SPLIT PIN.



DEC 2012	TITLE	
042 - 24	THROTTLE	ISOMETRIC
FIGURE 1	CONTROL VALVE	Dim. in mm