higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

STRUCTURAL STEEL DETAILING

1 APRIL 2019

This marking guideline consists of 6 pages.

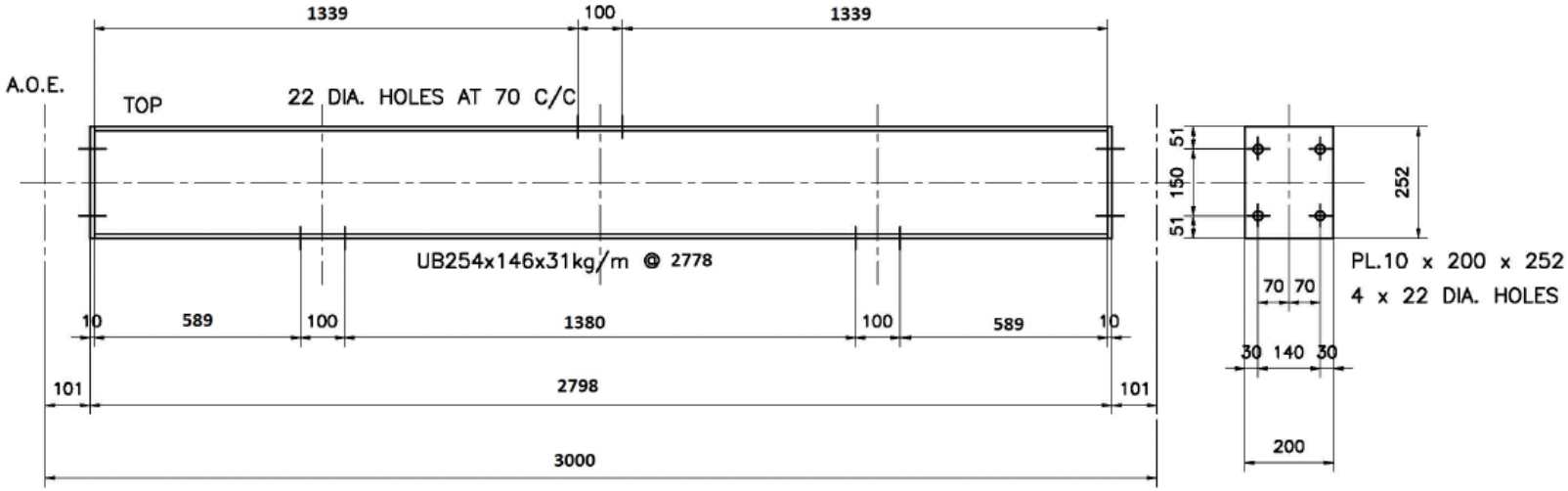
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QUESTION 1: INTRODUCTION

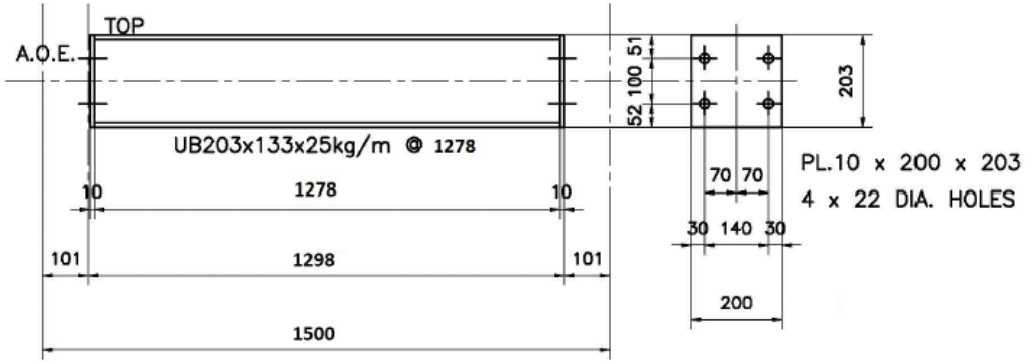
1.1 True
1.2 True
1.3 True
1.4 True
1.5 True
1.6 False
1.7 True
1.8 True
1.9 True
1.10 False

(10 × 1) **[10]**

QUESTION 2: BEAMS



BEAM MARKED B2 –1– OFF
SCALE 1: 10



BEAM MARKED B3 –1– OFF
SCALE 1: 10

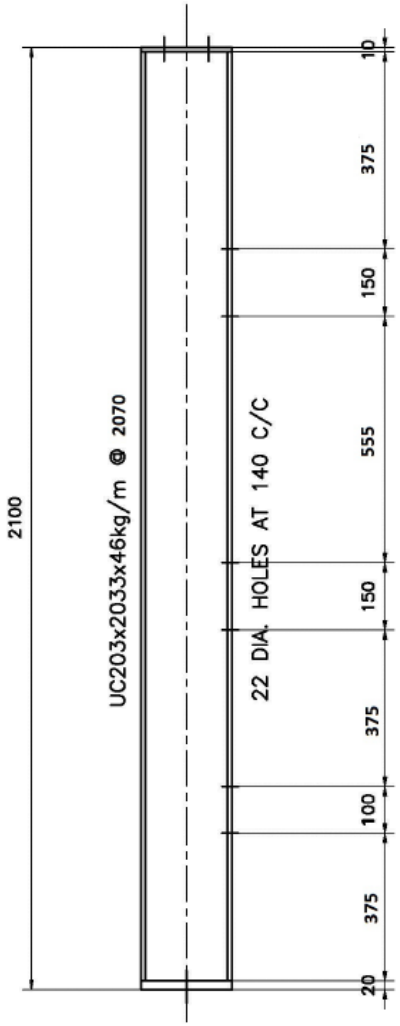
B2		B3	
Correctness	8	Correctness	8
Accuracy	1	Accuracy	1
Linework	2	Linework	2
Dimensions	2	Dimensions	2
Title and scale	2	Title and scale	2
TOTAL	15	TOTAL	15

TOTAL 30

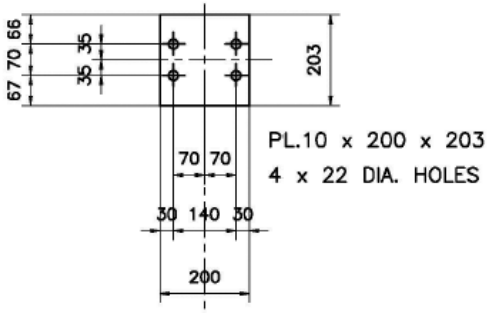
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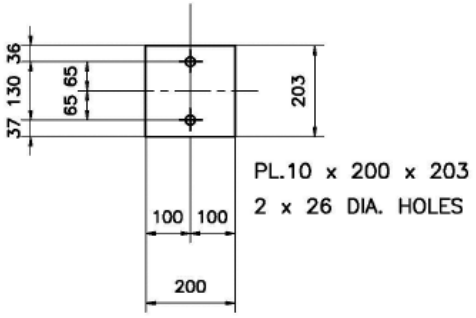
QUESTION 3: COLUMNS



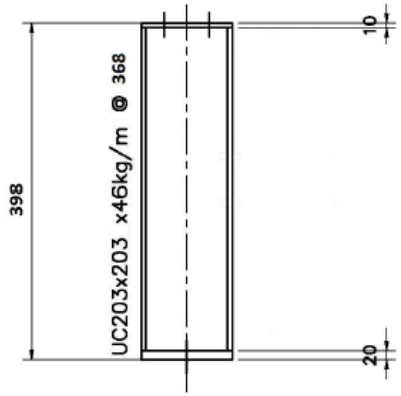
COLUMN MARKED C1 –1– OFF
SCALE 1: 10



COLUMN CAP PLATE C1 / C3
SCALE 1: 10



COLUMN BASE PLATE C1 / C3
SCALE 1: 10



COLUMN MARKED C3 –1– OFF
SCALE 1: 10

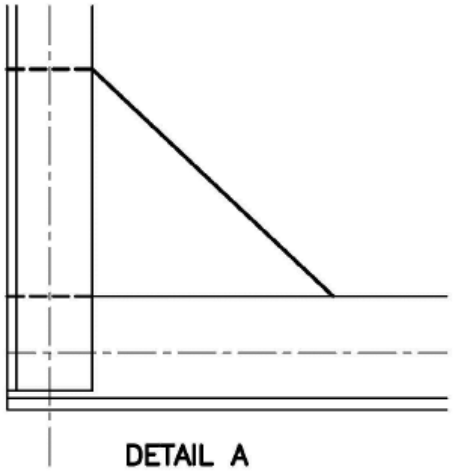
C1 / C3

Correctness	14
Accuracy	2
Linework	1
Neatness	1
Dimensions	3
Title and scale	4
TOTAL	25

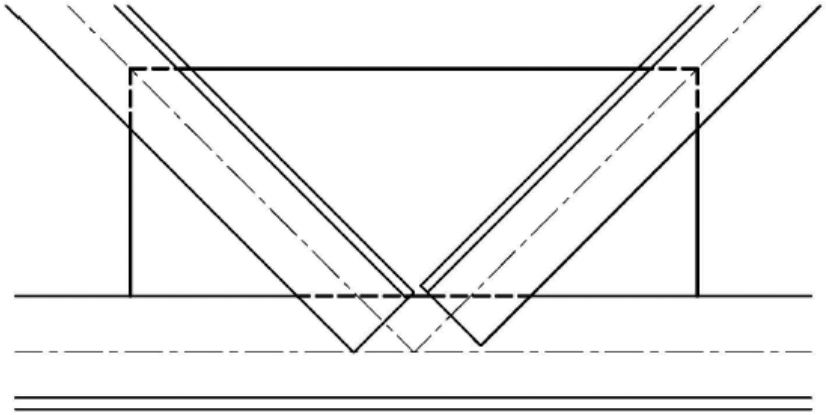
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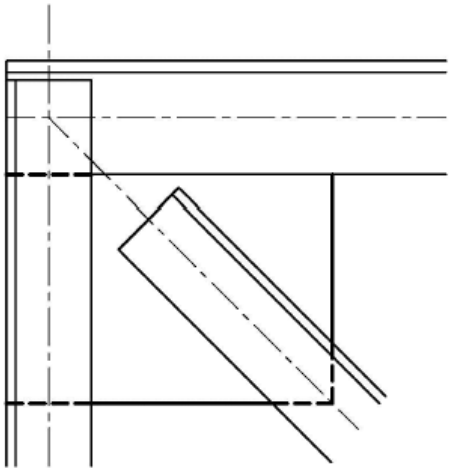
QUESTION 4: LATTICED GIRDERS



DETAIL A
SCALE 1: 5



DETAIL B
SCALE 1: 5



DETAIL C
SCALE 1: 5

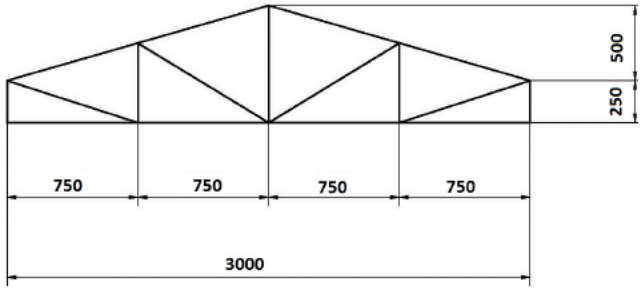
DETAIL A/B/C

Correctness	3
Linework	1/2
Neatness	1/2
Title and scale	1
TOTAL	3 x 5=15

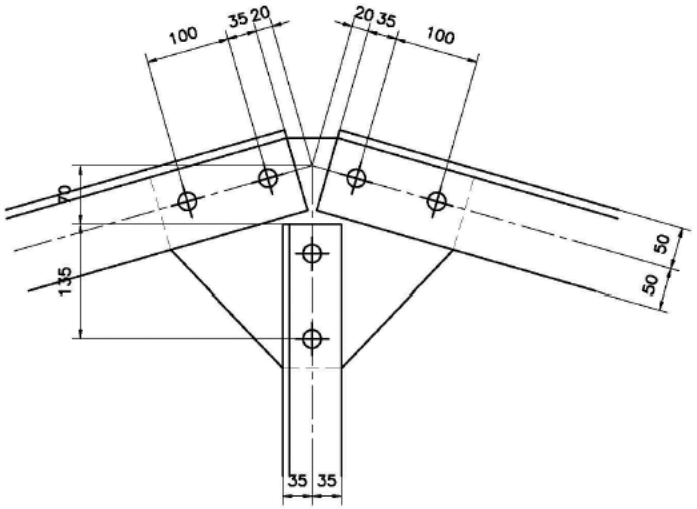
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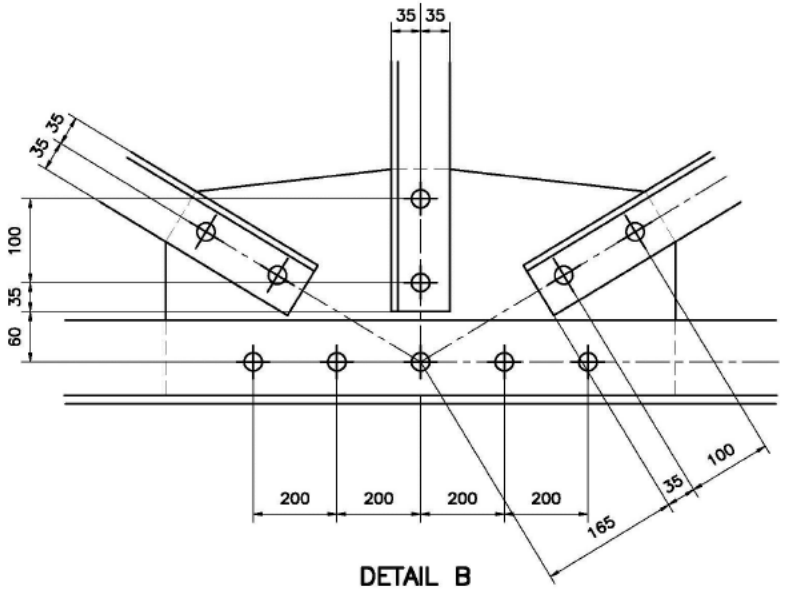
QUESTION 5: TRUSSES



TRUSS SYSTEM (6)
SCALE 1: 20



DETAIL A
SCALE 1: 5



DETAIL B
SCALE 1: 5

DETAIL A/B

Correctness	4
Dimensions	1
Linework	1/2
Neatness	1/2
Title and scale	1

TOTAL 7x2=14

TOTAL 20

[20]

TOTAL: 100

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